

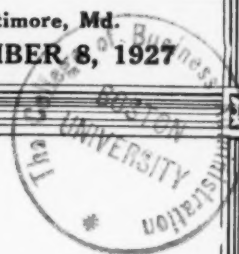
Manufacturers Record

Exponent of America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
DECEMBER 8, 1927



"Too Busy to Read."

The people for whom this editorial is intended are probably "too busy to read," but perhaps somebody may bring it to their attention.

"Advertising and Selling," a newspaper devoted to the things for which it is named, tells an interesting story of a business man who is always "too busy to read." A certain problem developed in his business and he sent for an expert to help him work it out. The expert charged him \$1000 for the job and he cheerfully paid it, "but that executive," says "Advertising and Selling," "did not know that there lay unopened on his desk, even while he was talking with that expert, a story of how another business man had worked out exactly the same problem and which would have given him all the information he desired." He was "too busy to read," but not too busy to lose \$1000 by not having read.

There is probably no busier man in the United States than J. C. Penney, whose organization controls 800 department stores throughout the country, who gives much time to the raising of high-bred cattle and still more time to a great farming operation on 120,000 acres of land in Florida, where he is working on an elaborate system of locating selected farmers on selected farms. These are only a few of Mr. Penney's operations, which one might think would crowd him to the limit, but he writes the Manufacturers Record:

"If there is one magazine that I receive that is carefully read by me it is the Manufacturers Record. I hope never to be too busy to have to pass it by, for I get much enjoyment and profit from it."

Many other great business leaders, the foremost in the nation, like Mr. Penney, always find time to read the Manufacturers Record.

If the people who think they are "too busy to read" would only stop to think for a moment, possibly they would realize that if the great business leaders of the country can find time to read the Manufacturers Record there must be enough in it of value to justify their reading it, even if they are busy.



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RICHARD H. EDMONDS, Editor

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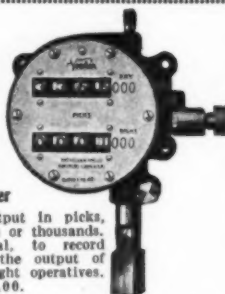
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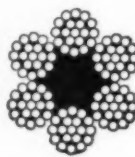
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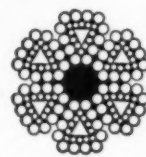
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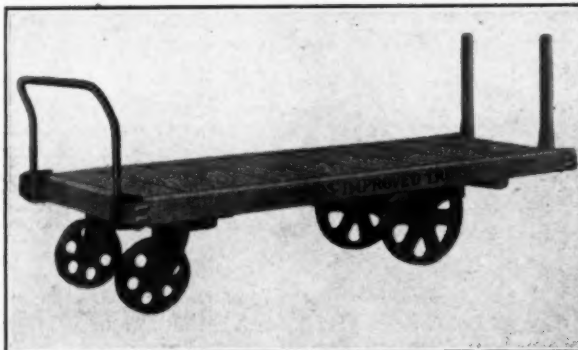
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Manufacturers Record

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of the South and Southwest as the Nation's Greatest Material Asset

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Vol. XCII No. 23
Weekly.

BALTIMORE, DECEMBER 8, 1927.

{ Single Copies, 20 Cents.
\$6.50 a Year.

Hundreds of Millions of American Money Invested in Europe This Year and the Danger Therefrom.

SCHMES of such magnitude that they almost stagger the imagination are being put through in Europe, largely by American capitalists for the domination of the world's chemical industry, and so rapidly as to challenge the attention of the people of this country. We have constantly warned our people against the tremendous investments of American money in European enterprises and pre-eminently in industrial and chemical industries which are being placed on such a basis through our capitalists that unless our country is wisely guided we can, in time of peace as in time of war, come almost completely under the domination of these European interests.

International bankers, some of whom seem decidedly more interested in Europe's progress than in America's, for the heavy commissions paid to them through the ramifications of their underwriting, are injuring American interests and drawing billions of money out of American pockets and pouring it into Europe. We venture to say that comparatively few of these bankers are carrying for their own accounts any large amount of such securities. Many of the securities are about as unsound from an investment point of view as were the bonds issued during Reconstruction days by negro-controlled legislatures in the South. Those bonds of necessity had to be repudiated when the white people of the South regained control of their affairs. Many of the bonds which were placed in Europe through such a reputable house as Baring Brothers should never have received the endorsement of any banking institution. And now many of our American bankers are floating in the American market hundreds of millions of securities, the value of which can depend only upon the permanent stability and freedom from war of European countries; and no man of sense can possibly, with safety, predict such a continuation of peace through the years to come.

Dr. Charles H. Herty, former president of the American Chemical Society and now advisor to the Chemical Foundation, was one of the most effective workers in America during the war, for the development of the chemical industry to save us and the Allies from being overpowered by the tremendous advantage which Germany had in its vast chemical operations. Discussing this movement of American capital into German enterprises, Dr. Herty, in a recent letter to the New York Times issued a warning to American people which should be given consideration. He wrote:

"The morning papers of yesterday carried an announcement of the offering of \$20,000,000 in bonds of the Norwegian Hydro-Electric Nitrogen Corporation. In this advertisement the summarized letter from the managing director of that cor-

poration states that his corporation 'has recently arranged with the I. G. Farbenindustrie (the German chemical monopoly) for the adoption of the Haber-Bosch ammonia process, now in successful use in Germany.'

"German and British newspapers and our Department of Commerce have called public attention to the fact that the Norwegian Corporation and the German I. G. have come to an agreement and contract effecting exchange of shares between the two organizations, the Norwegian enterprise thus becoming merged with the German chemical monopoly, which, in turn, is now united with the British and French synthetic ammonia industries.

"The afternoon papers of yesterday carried the same advertisement, supplemented at its top by the customary legend: 'Subscriptions having been received in excess of the amount of this issue, this advertisement appears as a matter of record only.'

"You carry in your issue of this morning an Associated Press dispatch from Frankfort-on-the-Main, Germany, which gives plans of the German monopoly for enlargement of their present plants, closing with this paragraph: 'As the plant extensions under consideration are expected to involve heavy financial requirements, it is believed in banking circles that the trust's executive board will vote to float a foreign loan large enough to carry out its program.'

"Will thrifty Americans continue to aid those who would destroy that which we all believe is essential to American welfare, our chemical industry? I do not believe so, if they once understand the full import of their investments.

"Will the Secretary of State consider carefully the matter of approval of such loans? Surely, this is a foreign monopoly.

"Will the Secretary of War give heed to the undesirability of such loans? If he will give a moment's thought to the utmost importance of a domestic supply of nitric acid, essential to every form of explosive, I am confident he will.

"Will the Secretary of Agriculture be content when he contemplates the position of the American farmer were he at the mercy of a European trust controlling nitrogenous fertilizer? He cannot fail to be apprehensive.

"Such transactions pass beyond the realm of ordinary commercial affairs and possess a deeper significance which should lead our people to think clearly when such offerings are again made to them."

This note of warning to America does not come from an alarmist nor a theorist, but from one of the leading men of affairs, largely identified through his whole life work with chemical interests.

It is a well-known fact that the foreign nitrate interests have vigorously sought to prevent the development of nitrate fixation in America. The potash interests of Europe have in every way possible sought to prevent the development of the potash industry in this country and by "ways more dark and devious" than is generally known to the public.

Foreign interests are trying to prevent the maintenance

of an American merchant marine. They entered upon that campaign many years ago and have never let up.

Some of our readers will remember that long prior to the world war one of the German steamship lines had in its pay a representative of the Associated Press at Washington, who was promptly dismissed from service of the Associated Press as soon as the discovery was made of his connection with this German steamship company. They will also remember that the head of one of these great German lines in interviews and public addresses in this country urged America not to attempt to build up a merchant marine, because it had an empire for development and "should leave an ocean-carrying trade to other nations better fitted to do the work than was America." Insidious propaganda is being put forth in one way or another at the present time against the maintenance of our merchant marine. We are building practically no new vessels, while foreign countries are building many magnificent steamships surpassing anything heretofore seen on the ocean, and freight boats with more modern equipment than any we have. While we are retrograding in this respect and permitting our merchant marine to slide backward, other nations are pushing their merchant marine to the front.

Wake up! Wake up! people of America ere it is too late, and realize that the commercial war Europe is now waging upon this country is a desperate struggle for which we are not prepared and which our people do not comprehend. In the same way that Germany was prepared for war on the battlefield for many years before the final call to arms was made, so Germany and other European countries are determined to conquer our nitrate fixation, our potash potentialities, our chemical industry and our merchant marine, not by taking possession of them, but by practically destroying them and leaving us unprepared for prosperity in peace or defense in war.

NEW ENGLAND PUTS ON STEAM.

AS was only to be expected in any gathering of New England business men, practical consideration of practical subjects of great practical import formed the main feature of the recent New England Conference and Council meeting at Springfield, Mass., appreciative comment on the personnel and the objectives of which was expressed not long ago in the MANUFACTURERS RECORD. On the whole, the two most important features were:

1. Formulation of plans by which the public utilities corporations of New England shall make industrial surveys of their communities, to determine what new industries can best be attracted to various localities, and to interest such new industries.

2. To cooperate in the establishment of financial credits to stimulate rehabilitation of flood-stricken Vermont.

Therein lies the constructive spirit of New England—a spirit never content with words, but active in constructive deeds. Instead of mourning the loss of textile plants which have migrated to the South, New England at once takes steps to replace them by other industries which can find profitable sites there. Its spirit and action are like those of the Newport News Shipbuilding and Drydock Company, which, when its shipbuilding industry was held up, turned to the building of cars and other products, and so not only saved itself as a going concern, but also even enlarged its business, to the profit of those financially interested, to the welfare of the South and, consequently, of the nation.

As President John S. Lawrence of the Council well put it, "the New England Council has brought together important groups and interests in the fields of agriculture, power, banking and industry which have embarked upon programs that augur much good for the future."

RESERVOIRS CAN HELP CONTROL MISSISSIPPI FLOODS.

IN our issue of last week we published an editorial showing the necessity of flood control to the national defense, and urged that since no plan of flood control can be complete which makes no effort to diminish the flood heights to be handled, or to protect the valleys of the tributaries from the individual floods which, combined, work such havoc in the Mississippi valley, reservoirs should therefore be used to reduce tributary floods as far as possible, and thereby reduce the floods to be handled in the Mississippi valley.

Of necessity, power reservoirs would have to play a large part in such a program. Every man who has been at all interested in the control of the Mississippi floods has seen statements to the effect that reservoirs built and operated for the generation of power are useless in the control of floods, because the two purposes are directly antagonistic, an empty reservoir being necessary to catch a flood, and a full one necessary to generate power. While there is a modicum of truth in this statement, its falsity when used as a sweeping generalization is unanswerably shown by certain examples of river control in the Southeast.

A good many years ago the Georgia Power Company began its developments on the Tallulah River, in Northeast Georgia. The Tallulah is a small river, but the rainfall is heavy, having averaged 70 inches per year for 30 years prior to 1925. Before the construction of the four dams and power houses its discharges varied from 100 cubic feet per second to 8000 cubic feet per second. The four reservoirs, as operated by the power company in the generation of electric energy—flood control is no objective except to the extent that flood waters are too valuable to waste—completely control the river's discharge.

Eleven years ago a flood in the Catawba River swept away almost every structure along its 400-mile course through the Carolinas, and did damage running into millions. Since that time the Southern Power Company has erected a dozen dams on the stream, with a flood storage capacity sufficient to impound the floods as they gather in the hills and hold them back for the dry seasons. The energy of those impounded floods pays for their capture.

To permit the inference that these rivers are typical examples of the degree of flood control that can be exercised by power reservoirs would be to commit the same sin of specious argument against which we have often protested. These rivers are not typical. They are chosen because they are exceptionally fine examples of the operation of power reservoirs in reducing floods. Like all extreme examples, they serve to illustrate a point, which is that most rivers are amenable to some degree of flood control by reservoirs of one sort or another, and that many rivers may be largely controlled by means of power reservoirs, so operated as to give the maximum revenue from the sale of such electric power.

On the many tributaries of the Ohio River the surveys of the army engineers and of power companies have definitely located large flood storage capacities that would be paid for by generation of hydro-electric power. There are other tributaries of the Mississippi that have storage facilities in conjunction with power development. The proper recognition of their value is essential to a comprehensive plan of flood control. A complete, exhaustive survey of all storage capacity, whether suitable for power or other purposes, is necessary if such a plan is to be carried out. The army engineers are the proper agency to make this survey. Private industry may be depended upon to develop all storage capacity suitable for generation of power, and Congress is the agency to decide, upon expert advice, to what extent Federal funds shall be spent in the development of storage capacity not suitable for generating power.

South Has More Than One-Fifth of Nation's Wealth.

ACCORDING to the National Industrial Conference Board of New York, the tangible wealth of the United States in 1925 was \$348,442,000,000, or a per capita wealth of \$3020, based on an estimated population that year of 115,378,000. This computation does not include the value of gold and silver coin and bullion, which in 1922 amounted to \$4,278,155,000, nor the \$1,445,922,000 value of ships belonging to the United States Navy. The aggregate value of all property or wealth of the United States is now estimated at approximately \$400,000,000,000, more than \$80,000,000,000 of which represents the wealth of the Southern States. From 1922, the last Government estimate, to 1925 the tangible wealth of the country increased 10.6 per cent.

For the 16 Southern States the aggregate wealth in 1925, based on the National Industrial Conference Board's figures,

WEALTH OF THE UNITED STATES, BY STATES AND GEOGRAPHIC DIVISIONS.

States	Wealth 1925*	Per capita 1925
Alabama	\$3,264,000,000	\$1,306
Arkansas	2,832,000,000	1,506
District of Columbia	1,834,000,000	3,568
Florida	2,829,000,000	2,239
Georgia	4,353,000,000	1,403
Kentucky	3,927,000,000	1,566
Louisiana	3,791,000,000	1,995
Maryland	4,448,000,000	2,851
Mississippi	2,427,000,000	1,355
Missouri	11,094,000,000	3,184
North Carolina	5,284,000,000	1,879
Oklahoma	4,226,000,000	1,842
South Carolina	2,704,000,000	1,499
Tennessee	4,838,000,000	1,976
Texas	10,760,000,000	2,064
Virginia	5,539,000,000	2,228
West Virginia	5,260,000,000	3,211
South	\$79,410,000,000	\$2,025
Maine	\$2,264,000,000	\$2,877
New Hampshire	1,559,000,000	3,449
Vermont	930,000,000	2,639
Massachusetts	14,697,000,000	3,546
Rhode Island	2,168,000,000	3,192
Connecticut	6,039,000,000	\$3,842
New England	\$27,657,000,000	\$3,463
New York	\$40,108,000,000	\$3,593
New Jersey	13,288,000,000	3,691
Pennsylvania	32,116,000,000	3,389
Delaware	709,000,000	2,979
Middle Atlantic	\$86,221,000,000	\$3,522
Ohio	\$20,915,000,000	\$3,233
Indiana	9,733,000,000	3,145
Illinois	24,009,000,000	3,385
Michigan	12,985,000,000	3,031
Wisconsin	8,785,000,000	3,087
East North Central	\$76,427,000,000	\$3,213
Minnesota	\$9,359,000,000	\$3,584
Iowa	11,242,000,000	4,646
North Dakota	2,562,000,000	3,996
South Dakota	3,338,000,000	4,900
Nebraska	5,737,000,000	4,185
Kansas	6,705,000,000	3,698
West North Central	\$38,943,000,000	\$4,083
Montana	\$2,505,000,000	\$3,728
Idaho	1,781,000,000	3,506
Wyoming	1,136,000,000	4,961
Colorado	3,469,000,000	3,336
New Mexico	945,000,000	2,461
Arizona	1,534,000,000	3,584
Utah	1,728,000,000	3,429
Nevada	565,000,000	7,299
Mountain	\$13,663,000,000	\$3,554
Washington	\$5,628,000,000	\$3,727
Oregon	3,775,000,000	4,374
California	16,718,000,000	4,000
Pacific	\$26,121,000,000	\$3,986
Total United States	\$348,442,000,000	\$3,020

*Computed by Industrial Conference Board, New York.

†Excludes value gold, silver coin and bullion and ships belonging to United States Navy. In 1922 gold, silver coin and bullion were valued at \$4,278,155,000, and ships belonging to United States Navy \$1,445,922,000, but these items are not computed for 1925.

amounted to \$79,410,000,000, or an increase of 11.2 per cent since 1922. The per capita wealth of the South, which had an estimated population in 1925 of 39,206,000, was \$2025.

In this discussion the term "wealth" represents only its tangible, physical forms such as land and improvements, farm and industrial equipment, livestock, railroad and public utility property, personal property and motor and other vehicles.

Nevada, with less than 80,000 inhabitants in 1925, had a greater share of wealth in proportion to its population than any other State in the Union. Although the total wealth of Nevada is only \$565,000,000, the smallest of any State, its per capita share is \$7299. New York State, with about one-tenth of the country's population and ranking first in total wealth, which amounted to \$40,108,000,000 in 1925, ranks fourteenth in per capita wealth, estimated at \$3593.

Mining and agricultural States in the far West, Northwest and Middle West showed the greatest per capita wealth. Although the great industrial States of the country have the largest total shares in the nation's wealth, none of them have a per capital figure high enough to be included among the first eight States. Connecticut ranks ninth on the list of per capital wealth, but Montana, Kansas and Washington in their wealth per capita exceed New York, New Jersey and Pennsylvania. While the per capita wealth of the South, amounting to \$2025, ranks low, the South's aggregate wealth represents more than one-fifth of the country's total.

A QUESTION FOR CONSIDERATION BY COMMERCIAL ORGANIZATIONS IN THE SOUTH.

THE manager of one of the leading chambers of commerce in the South suggests the following points for discussion, through the MANUFACTURERS RECORD, by the officers of other commercial organizations. His proposition is an interesting one and within a reasonable limit we shall be glad to give space to the views of others. Here is his proposition for study:

"There seems to be a tendency on the part of some chambers of commerce to institute a program of industrial expansion which, perhaps, should have the serious consideration of the public at large. President O'Leary of the United States Chamber of Commerce sounded a note of warning on this subject at the annual meeting of the National Chamber in Washington. The thought I have in mind seems to me to be properly brought out by the following questions:

"1. Is it not fatal to turn what has been a successful chamber of commerce into an industrial bureau?

"2. Does not doing so disrupt the recognized balance in the fundamental purpose of a chamber of commerce—namely, that it should concern itself with 'Civic Affairs, Commercial Affairs, and Industrial Affairs'?

"3. It has long been recognized that it is proper to have an industrial bureau of the chamber of commerce. Under the new thought, however, would we not tend to the improper statement—'The Chamber of Commerce of the Industrial Bureau'?

"4. Does not the tendency in some sections to magnify the industrial side, to the minimizing of the civic and the commercial sides, prophecy an ultimate disintegration in the support of the chamber of commerce?

"5. Would not the breaking down of the chamber of commerce program as it now exists be very disastrous?

"6. Does not this new scheme indicate the return of the insidious bonus evil?

"7. Is it not a fact that the bonus evil was, in earlier days, the child of special interests and for special aggrandizement, instead of for community interest?"

SOUTH CAROLINA'S HIGHWAY COMMISSIONER WORSHIPS AT THE SHRINE OF FREE TRADE.

C. E. JONES, chairman of the State Highway Commission of South Carolina, has issued a letter in reply to one recently published by Dr. Wade Stackhouse in which the latter vigorously protested against purchase of foreign cement for the highways of South Carolina. In his letter Mr. Jones takes decided issue with the position advanced by Dr. Stackhouse and protests against a tariff being imposed by the United States on foreign cement. In the course of this statement he says, "A tariff imposed on foreign cement by the United States might cause foreign cement selling countries to exclude American cotton. If such be the result, it may be necessary to again ask the American people 'to buy a bale at 10 cents a pound.'"

If the other statements made by Mr. Jones have no more foundation than this assertion, then they are scarcely worthy of consideration. European countries do not buy a bale of cotton from this country which they can buy from any other. The suggestion that a tariff on foreign cement would cause them not to buy American cotton reaches a degree of absurdity that makes it quite impossible to comprehend how a public official of South Carolina could be responsible for such a statement. Moreover, a good deal of this foreign cement is coming from countries which are very small buyers of American cotton at any time.

Elsewhere in his letter to Dr. Stackhouse, Mr. Jones writes:

"I am sorry you have gone so far astray from the principles of the Democratic party and have been so definitely committed that the statements signed by you in New York will perhaps be used by the American cement industry and National Builders Supply Association of the United States of America, when they and the Republican party openly begin advocating a tariff on foreign cement."

And so Mr. Jones adheres to that fetish of olden times when the Democratic party was supposed to be composed of rank free traders who did not believe in any tariff protection. When Henry Watterson in one of his famous editorials in the *Courier-Journal* criticised his own party for some free trade proclivities instead of favoring a tariff for revenue, he was vigorously assailed by one of his readers. In reply Colonel Watterson wrote another strong editorial justifying his position in criticising the Democratic party for some of its mistakes and closed with the following:

"Things have come to a hell of a pass
When a man can't wallop his own jackass."

The time has long since passed when any Southern man should be criticised by State officials or any one else because he believes in the benefit of a protective tariff to American interests. When the peanut and the vegetable growers of the South, chiefly Democrats, are vigorously working for a protective tariff to save their interests from destruction by foreign importations, it can easily be seen that the South is moving rapidly forward to becoming an active center of protection for its agricultural as well as its industrial interests. If the Democratic party refuses to give protection to these interests, its leaders may rest assured that the people of the South will turn to the Republican party to secure that needed protection for its cotton manufacturing, its iron interests, its cement interests and for its agriculture. It ought never be necessary for Southern people to be forced by the old fetish of free trade to abandon their party merely to secure the benefit of a protective tariff.

We do not think Mr. Jones, chairman of the South Carolina Highway Commission, has at all strengthened his position by the statement he has issued for his appeal against a protective tariff on cement or other industries. He refers to the "principles of the Democratic party" as being contrary to

a protective tariff. This was not always so by any manner of means and there are hundreds of thousands of good Democrats in the South who are opposed to free trade and are ready to work for a protective tariff.

PREVIOUS MISTAKES OF TREASURY DEPARTMENT JUSTIFIED POSITION OF CHAMBER OF COMMERCE ON TAXATION REDUCTION.

SCARCELY a single prediction made by the Treasury Department during the last five or six years as to the Government's income has been fulfilled. Practically in every case Secretary Mellon and the Treasury Department have greatly underestimated the surplus. Considering this unprecedented record of failures in predictions it seems a little out of place for Secretary Mellon to criticise the report of the United States Chamber of Commerce in favor of a reduction to the extent of \$400,000,000.

The predictions made in regard to the evil that would be wrought to the Treasury if a Bonus Bill were passed were as much out of place as have been all the predictions made by the Treasury Department as to the Government's income and expenses. Members of the Chamber of Commerce who studied this whole proposition are just as capable business men as the officials in the Treasury Department. They were just as competent to judge of the merits of the case and the amount of reduction of taxation which the Government could stand as Treasury officials. The deliberate slap of the Administration at these business men is therefore wholly unjustified from every point of view. In fact, the Administration and the Treasury Department ought gladly to have welcomed every suggestion that could be received in regard to the revenues of the country and how they could be expended and to what extent taxation should be decreased.

It is to the business men that this country must look for the income which makes possible the maintenance of Government expenditures. They study these questions with as much care and as much patriotism as the Treasury Department, and with a long unbroken record of failures in its predictions the Treasury Department is hardly in a position to criticise anybody else.

The tax reduction should apply to incomes of 1927. The claim that corporations have passed on to their customers the cost of this income tax is erroneous, for with manufacturers generally the year has been one rightly classed as profitless prosperity.

It will be remembered that at the annual meeting in Chattanooga, in October, of the National Association of Manufacturers, President Edgerton stated that never in the history of manufacturing had the profits on business been so small. Indeed, except for many of the larger corporations the year has been a very trying one on a large proportion of the business interests of the country. Every manufacturer knows that while expenses have steadily increased the margin of profit has in most cases decreased. A reduction in taxation would help to stimulate business and start the ball rolling for a larger margin of profit. Therefore, the Congressmen who are fighting to have this proposed reduction take effect on 1927 incomes are justified in their position and in fighting it out on that basis.

WILL EUROPE HAVE TO FACE ANOTHER GREAT WAR?

THERE are forces at work throughout Europe which indicate the possibility of another tremendous war in the not distant future. The hatreds engendered are apparently greater than those that existed prior to the World War. In the unwise movement, for which this country was partly responsible, of attempting to divide up European countries on the basis of races or "self-determination," many countries were carved up in a way to increase the spirit of enmity. Some of these races had been accustomed for hundreds of years or more to adjustments existing prior to the war. But when we took the ground of helping to carve up great empires we helped to foment the fires of hatred which probably will never burn out except through another disastrous struggle.

Foolishly, American investors, through the powerful influence of international bankers, are pouring billions of dollars into Europe, much of which they will possibly never see again. It is stated that the American investments in European interests since the first of the year amount to \$7,000,000,000.

When and if this next war breaks loose, unless conditions are absolutely different from what can now be seen, this country should not permit itself to be engulfed in the maelstrom. We did our duty to civilization and to ourselves when we entered the World War to save civilization from destruction, but we do not believe that duty will again call us to a struggle on European battlefields unless war is definitely made upon us. In the meantime it should be the aim of this country to safeguard itself to the utmost extent by the fullest development of nitrate fixation, of potash, of rubber and of all other things which are essential to our welfare when war would make their importation well nigh, if not quite, impossible.

We are living in a fool's paradise if we are living under the impression that the hatreds of mankind may not again be voiced through another horrible war with all that it means in the destruction of property and of lives.

At the beginning of the European War a New York engineer, who had had an uncanny ability to predict or prophesy things that would come to pass—and many of which have come to pass—said to the writer that the World War would last for 30 years. He did not mean continued fighting for that period, but he meant that it would probably be 30 years before permanent peace was established, and during that period there would be recurring wars with all of their horrors.

Should such a war break loose in Europe again there is no telling how far it might extend through Russia, into China and Japan, and it is quite probable that in some way some of these great nations might combine against the United States. As compared with the aggregate power of such a combination, we would be almost helpless and the destruction wrought here would be incalculably great before we could fully protect ourselves. All the talk of the pacifists is mischievous, especially if we fail to take into account that probably in the not distant future there will be no peace, and until nations have fought to the bitter end what was an inconclusive war.

For the good of humanity and civilization itself it is to be hoped that such a war may not come to pass. Every man who believes in prayer may well pray that the world may be saved from such fearful destruction. But through all the ages wars have come despite all the peace efforts that have been made, and there is no indication that wars have ended. On the contrary, the bitter hatreds which now exist throughout Europe, intensified by the carving up of different nations at the Versailles Peace Conference, are strong factors in

helping to bring about war. The doctrine presented and enforced upon parts of Europe of the "self-determination" of races planted the seeds of bitterness which will hardly be wiped out in centuries to come. "Self-determination" of these supposed differing nationalities is responsible for much of the condition now prevailing in Europe, liable at any moment to break forth into a great disaster. In the meantime it behooves every patriotic American to recognize the real danger of the situation.

WHICH WILL CONGRESS PROTECT, AMERICAN OR FOREIGN MANGANESE?

D. A. ODEN of Birmingham, in a recent letter to members of Congress from Alabama, wrote:

"Enclosed please find marked copy of the Birmingham News of November 13, carrying editorial comment on an article reprinted from the MANUFACTURERS RECORD: 'The Truth About Manganese.'

"I would thank you to read carefully both clippings and, if you find the facts and arguments therein persuasive, kindly use your influence to prevent the threatened destruction of a domestic industry, as removal of tariff on manganese will bring about very promptly. The mining of manganese involves large investments of American money and provides safe and substantial employment for a large number of American workmen at remunerative wages, the very nature of the work requiring much of it to be done by hand.

"While foreign manganese producers would be aided by an enlarged market (American), and the steel manufacturers would get a temporary benefit from cheaper raw material, both profits would be at the expense of domestic mining sacrificed—entailing large financial losses to producers, and that greater evil in the form of suffering imposed upon a laboring element whose means of livelihood is ruthlessly taken away. This latter class is largely composed of men who have spent years in acquiring proficiency in this type of mining, and it would be a hardship, undeserved and unfair, to compel them to take up new occupations for a living.

"When consideration is given to the fact that those engaged in mining manganese, and industries dependent upon or related to this enterprise, make up a substantial consuming factor in steel products, it is doubtful if the saving to steel producers in cost of raw manganese compensates for shrinkage in purchasing power of those consumers eliminated by destruction of domestic manganese mining.

"Although the theory of protection has long been abhorrent to Democratic principles, the present situation appears to allow no alternative to those voting on the question; since a vote either way means protection—either for a very powerful manufacturing industry concentrated in a limited area, or for another industry of (comparatively) modest means, yet widespread in its activities and far-reaching in its benefits to laboring men through local employment provided. So widely scattered throughout the United States are manganese deposits, that no taint of sectionalism nor any charge of selfishness can attach to a sympathetic vote cast upon the broad principle: America First!"

A FAVORED SECTION.

IN commenting on the progress of the "cow, hog and hen" campaign in Georgia, A. I. Steinheimer, president of the Dairy and Farm Supply Company, recently said:

"Say what you will, in whatever language you wish, the South is the most favored place by climatic conditions and market of any place on earth to raise stock and poultry, and, while we do not attempt to tell anybody what kind of crops to raise, we do know they cannot go wrong if they have some cows, some hogs and a large flock of the different kinds of poultry."

Mr. Steinheimer hardly could have condensed this great truth into fewer words.

HOW TO INCREASE HEALTH AND HAPPINESS THROUGH WELL SELECTED AND WELL COOKED FOOD.

THE Congressional Club Cook Book, issued by the Congressional Club of Washington, a club composed mainly of the wives of present and past Congressmen, is probably the most comprehensive and elaborate cook book ever issued. It is a book of about 800 pages, containing an almost limitless selection of recipes for every imaginable food that can be provided for the palate and the stomach of mankind. Members of the club and others have contributed their choicest recipes toward the making of this very wonderful publication.

As one turns page after page and notes the many methods of preparation, he can but marvel at the wide variety of food which goes to the sustenance of mankind. Hundreds of women, possibly a thousand or more, have contributed to this publication, including we imagine, without a careful examination, contributions from the wives of practically every member of the House and Senate. That, however, does not by any means comprise the entire list, for the wives of representatives of foreign countries have also furnished an almost endless list of recipes of those dishes most popular in their countries. There are recipes from Persia, from Siam, from the Netherlands, from Jugo-Slavia, from Uruguay, from Venezuela, from Switzerland, from Turkey, from Spain, from Russia, from Portugal, from Poland, from Nicaragua and Norway and Mexico, from China and Denmark, the Cape of Good Hope, Chile, Canada and Bolivia and Brazil, from Belgium, from Austria and other countries too numerous to mention. Through representatives of these countries, or officials in these foreign lands, the Congressional Club has been furnished with the recipes of the favorite dishes of these various countries.

Also there are special contributions from leading Government officials. Dr. Doran, United States Commissioner of Prohibition, writes on "Substitutes for Intoxicating Liquors in Food Products." Dr. James F. Rogers, Chief of Health Division, United States Bureau of Education, writes on "Feeding the School Child." Dr. Skinner of the Bureau of Chemistry of the Department of Agriculture, writes on "The Value of Food Standards." Dr. Jones, likewise of the Bureau of Chemistry, writes on "Food Values."

Interspersed with the serious things of this book are such interesting bits of advice as "A Recipe for Happiness," and Mrs. Frederick Purnell, wife of Representative Purnell, tells "How to Preserve a Husband," a very essential thing which many women have never learned. She also tells "How to Preserve Children," and the recipe for preserving children is a very interesting one. Here it is:

"Take 1 large grassy field, $\frac{1}{2}$ dozen children, all sizes; 3 small dogs, 1 long, narrow strip of brook, pebbly if possible. Mix the children with the dogs and empty them into the field, stirring continually, sprinkle with field flowers, pour brook gently over pebbles, cover all with a deep blue sky and bake in a hot sun. When the children are well browned, they may be removed. Will be found right and ready for setting away to cool in the bathtub."

The compilation of this monumental encyclopedia of information on the art of cookery and all that pertains thereto, and the art of preparing food in a wholesome and appetizing way, reflects very great credit upon those who have been responsible for this work. The editors and the Committee on Compilation and Publication consist of the following:

Chairman, Mrs. Louis C. Cramton, Michigan; secretary, Mrs. Clarence Lea, California; treasurer, Mrs. Clara J. Sproul, Illinois; Mrs. Clyde M. Kelly, Pennsylvania; Mrs. James H. MacLafferty, California.

The book is copyrighted by the Congressional Club and

printed in the United States of America by Fleet-McGinley, Inc., Baltimore, Md. The dedicatory page carries the following:

"To those who serve and those who are served, this compilation of the practice of cookery is dedicated."

Since the way to a man's heart is said to be through his stomach, and since the way at least to the maintenance of health is through the preparation of wholesome food, this Congressional Club Cook Book is a distinct contribution to the health and happiness of the people who are fortunate enough to become the possessor of a copy. The price is \$2.50 per copy, with 25 cents additional for postage and packing.

NEW ENGLAND TURNING AGAINST BUREAUCRATIC POWER.

THERE is evidently a growing sentiment in New England against increased bureaucratic power being given to Washington authorities. Last week we called attention to two letters received from New England business men bringing out this point very strongly. In a letter since received from Henry Trumbull of Plainville, Conn., the following statement is made:

"The prevailing feeling here, if I am able to interpret the public mind at the present time, is adverse to any further Government control of waterways, or in fact, any natural sources that can better be handled by the State or local authorities, and in a good many cases where it enters the commercial field be directed by private business. There are ample funds in New England to rehabilitate the destroyed areas along the Connecticut River, and I believe proper steps will be taken to provide protection from a repetition of this trouble in the near future. In fact, I feel the local community in each district where the Connecticut or other rivers are liable to heavy overflow is already started and will be amply provided for."

That the business men of New England should be turning away from the movement of giving increased power to bureaucratic control in Washington is one of the hopeful signs of the times. When rock-ribbed New England, so strongly identified with the Republican party as it has been, begins to recognize that the Federal Government is becoming too dominant in local affairs, it is indicative of a gradual trend of thought away from centralized power which has come to be so serious a menace to our future.

THE SEED SOWN BRINGS FORTH THE GOOD HARVEST.

A. T. ROBERTS, publicity director of the Columbus, Ga., Electric and Power Company, in sending an article published elsewhere in this issue in regard to the discovery of travertine, gives an illustration of how advertising sometimes brings good results long after that advertisement has ceased to appear. In this case, for instance, a particular advertisement which had not appeared for 12 months in the MANUFACTURERS RECORD was read by a business man, who followed up the advertisement with some inquiries which resulted in an important development in a territory tributary to the lines of the Columbus Electric and Power Company. Writing on that subject, Mr. Roberts said:

"In the same week which brought the announcement of the discovery of travertine in Randolph county, the Dixie Lime Products Company acquired several hundred acres of lime land at Perry, and is installing machinery for quarrying this rock. It is to be operated on a large scale. The material

will be used for road building. I am also enclosing a brief story on this industry.

"The situation seems to be shaping up to a point where we will soon feel justified in beginning another program of advertising for this territory. The development of the travertine deposit in Randolph county, by the way, directly resulted from an advertisement we carried in the MANUFACTURERS RECORD. Mr. Godfrey told me that he opened negotiations after he had read this advertisement in the MANUFACTURERS RECORD, so here we see results apparent 12 months after the advertisement appeared."

On the same line, we have the following letter from Mrs. J. C. Knowles, secretary of the Randolph County Advertising Club, Cuthbert, Ga.:

"I am enclosing a picture and a clipping copied from the Atlanta Georgian by our local paper. This new development is of very great interest to us, and we think something quite out of the ordinary. All local people have known for years of the great limestone deposit, just a few miles north of the city. It has been surveyed several times and analysis made by people interested in the lime, or crushed rock for road building. However, it remained for H. M. Godfrey, of the Godfrey Marble and Tile Company, of Atlanta, to see the possibilities of this wonderful deposit. He obtained his first information from the page ad carried in the MANUFACTURERS RECORD of January 27, 1927 (page 131), and wrote this office for samples, which we sent him. A few weeks ago he came here, obtained the lease and hopes to have the work under way before the first of the year. He brought some small samples of the polished material with him and they are very beautiful indeed."

WIDESPREAD EFFECT OF IMPORTATION OF FOREIGN CEMENT ON AMERICAN INDUSTRY.

IN an effort to protect its trade and its dealers against an unsettled condition said to have been created throughout the territory served by its Birmingham mill, largely through the introduction of foreign cement, the Alabama Portland Cement Company, a subsidiary of the International Cement Corporation, this week announced a reduction of 20 cents a barrel in the mill base price of cement at its Alabama plant, effective December 5. J. W. Johnston, vice-president of the Alabama Company, who made the announcement, said:

"This foreign cement is manufactured under conditions unacceptable to American standards of living which allow it to unfairly compete with the domestic product. Its sale here is in effect an evasion of our immigration laws and its introduction at the ports has had the effect of unsettling the industry throughout the entire territory to a dangerous extent.

"While this reduction is a serious sacrifice and is made primarily to protect the cement company's dealers, we believe it will materially benefit producers of domestic coal, power, cotton, explosives and the railroads, and it is hoped it will correct the highly unsatisfactory conditions within the industry."

Foreign cement, produced in some cases by workers paid one-fourth the wage of American labor, can be, and is, shipped into the country in successful competition with American-made cement. Not only in this case does the cement industry directly suffer, but, as pointed out by Mr. Johnston, industries in general also suffer. Over a long period of years the MANUFACTURERS RECORD has emphasized these points, and demonstrated that the prosperity of the United States is dependent on the prosperity of the working class and that the prosperity of the workers is dependent on protection against successful competition by low-paid foreign labor. A major percentage of the production in all lines of industry in this country is purchased and consumed within the country. But we cannot purchase the products produced if our buying ability is curtailed to the level of near-pauper workers in foreign countries.

AN ASININE SUGGESTION OF A MASSACHUSETTS TOWN TO ELECT PRESIDENT COOLIDGE FOR LIFE.

RARELY has this country seen a more asinine piece of business by any group of supposedly intelligent men than the action of a town meeting at Sudbury, Mass., which voted to double the salary of President Coolidge and to re-elect him for life. This Republican town committee voted, according to the Associated Press dispatch, as six to one. Irving A. Priest, a Boston banker, who is secretary of the meeting, in explaining the action of the body, said:

"We have no apologies to make for our zeal in seeking to perpetuate this Massachusetts man in office. Good and sufficient collateral for the zeal lies in the knowledge that in the flesh of Calvin Coolidge has come to life in very fact the long-treasured, long-idealized, mythical Uncle Sam—thin, sharp-featured, grim, deliberate, cool, firm, patient, sagacious, tolerant, kind, Christian. It is our fixed purpose to work first and last to consummate this lone instance since General Washington wherein the Presidential office has sought the man."

This action is an insult to the nation and likewise to President Coolidge, but it indicates a certain degree of subserviency and disregard of the history of this country that deserves the severest denunciation by all thinking people regardless of their political affiliations. In the first place the suggestion of any man as President for life in itself indicates a lack of ordinary intelligence which we are glad to say is not typical of the people of Massachusetts. They know full well that however successful any President might be, his continued re-election time after time would simply mean the final destruction of our present form of Government and the establishment of a monarchy. Is that what this Sudbury crowd is aiming at? If so, why did it not have the courage to express its convictions straight out?

Mr. Coolidge's statement that he did not choose to run for the Presidency next year was either an honest confession of his intention not to run or else a subterfuge, hoping that that very statement might rally the Republican delegates to him. Honest-minded people prefer to believe that President Coolidge meant exactly what he said and was not guilty of subterfuge.

"BUSINESS A DIVINE CALLING."

JOHAN MORRELL & CO., Ottumwa, Iowa, have recently issued a very attractive booklet, beautifully printed, entitled "The Fruits of 100 Years." It is the story of the progress of that house since it was first established in England by George Morrell 100 years ago. This publication is worth the study of people who want to know how men have achieved things and achieved them by honest and honorable dealings. The foreword, if it may be so called, is a message from the president, T. Henry Foster, which reads as follows:

"The presentation of this volume to the members of our organization is made with the hope that it will better acquaint all with the true facts pertaining to the founding and early history of the business, and at the same time help to perpetuate the spirit of our departed leaders by forever keeping their ideals before us.

"These pioneers in industry, whose difficulties and accomplishments are so instructively related in the following pages, demonstrate that a successful business has a soul—that business is eminently a divine calling. They did not differentiate it from any other calling, no matter how noble, how beautiful, how altruistic. This, I believe, is the true secret of their success.

"But, a business cannot exist solely on the good name of its founders, nor attain success through contemplation of past accomplishment. Let us not, therefore, on this our 100th anniversary, call the day's work done. Let us, rather, look forward with courage to the task before us—striving to make the second century fit successor to the first."

Negroes Guide a Negro School to the Promotion of Racial Harmony.

The Prentiss Normal and Industrial Institute,

For the Training of Colored Young Men and Women,

Prentiss, Miss.

Editor Manufacturers Record:

It has been practically three years since we exchanged greetings. Since that time, many, many obstacles have been conquered, and the South is still pressing forward with unremitting vigilance. Much of the progress has been made from the mere fact, that programs so assiduously laid out by the MANUFACTURERS RECORD have been taken under very careful consideration. Hence, advancement was made more certain, and progress more secure.

I have not had full time to read the contents of the RECORD since returning from Chicago, where I was a constant reader of the RECORD and the Blue Book of Southern Progress. I am indebted to the Utica, Miss., Institute, where I worked for a long number of years, for making it so convenient for the teachers and students not only to read, but also to study the RECORD. The Prentiss Institute, where I am now located, also wishes to give the same opportunity. Both schools are outgrowths of Tuskegee.

It is most gratifying to state that Mississippi is witnessing the most progressive year of its history—not in one phase of endeavor, but in all vocations of life. The farmers are prospering and are happy. The cotton crops meant much to the forward march, notwithstanding the fact that Mississippi no longer looks to cotton only for sustenance. Scientific methods of farming have been inculcated into the mind of every farmer, and with his cotton he has hogs, chickens and a small dairy. The bringing in of cheese factories in the northern part of the State is evidence that Mississippi is no longer dependent upon cotton. Suffice to say that industry is also playing an important role in its making.

A careful survey of conditions in the southern area of Mississippi furnishes conclusive proof that Mississippians are not in a state of lethargy. For instance, Laurel, located in Jones county, in south Mississippi, has made rapid strides in progress. It has one of the best payrolls of any city in the State. Both races work in perfect peace and harmony. The churches, schools, Y. M. C. A., lumber mills, Board of Trade and other facilities offer untold opportunities to its citizens. No loafer is respected. Consequently, the city knows no poverty or hard times.

Plans are being perfected at the present time for a colored city and training school for negroes, given by white friends residing in the city of Laurel. The name of the city is Queensburg. If the plans mature, this school will have no comparison in this part of the country. It will be on the Hampton and Tuskegee idea. The streets have already been paved, city type, and boulevards such as one sees in Northern cities greet the visitor. The location of buildings, etc., was under the direction of an expert landscape gardener.

High schools are rapidly taking the places of poorly equipped ones. Teachers receive more pay and, as a result, better teachers are employed.

Jackson is the mecca of Mississippi where negroes practice law before the courts with impunity. To be frank, I know not of a place in the South where negroes are treated with more respect than in Jackson. Policemen are as fair to the colored as to the white; it's just law enforcement and that's all. The Jackson Daily News and the Daily Clarion Ledger are fair to all citizens of Jackson; consequently, the negro is protected not only by private individuals, but also by the law.

The Y. M. C. A. for colored people in Vicksburg stands as a monument of the race relations in Mississippi, as well as the Laurel colored city and school. Mrs. J. W. Johnson, white,

born and reared in Mississippi, now residing in Vicksburg, saw the need for such an institution for colored men and gave them one of the most modernly equipped Y. M. C. A. buildings to be found anywhere in this part of the country. Aside from the building, she gave \$100,000 as an endowment. This Y. M. C. A. serves as a practical, concrete inspiration for the young colored men of Vicksburg.

Newspapers of both races, in this State, are diligently seeking the truth for justice and righteousness. This means that lynchings and mobbing do not get the hearty approval of the leading citizens, and those who are willing to disregard the law and drag the South down into the realms of shame and disgrace grow fewer in number. Every editor of a Mississippi newspaper is for law enforcement; nothing more or less. I feel that within a few years lynching in this State will be unheard of. Editors and preachers, of all races and denominations, are no longer reticent when it comes to the solving of this great human problem.

Men do not leave a State merely because it happens to be in a certain section of the country, but because another section offers greater opportunities for one's advancement. If the South offers the best, then the exodus will be to the South from the North, and not from the South to the North.

The new South is being accepted by the new negro; and, thanks to God! the new negro is being accepted by the new South.

I trust that the country does not only read, "Know Mississippi Better," but will actually and in fact "Know Better Mississippi." Governor Murphree's train has done much to inform the States of the Union that Mississippi is a State of progress, opportunity, education and Christian religion. No historian could easily write of the South and its progress, without mentioning Mississippi.

ANSELM J. FINCH.

Cotton Linters Standards.

A detailed description of United States standard grades for cotton linters established August 1, 1926, by the Department of Agriculture has been published as Miscellaneous Publication No. 10-M, entitled "The Establishment of Standard Grades for American Cotton Linters."

There have been brought together in compact form in the publication definitions of trade terms, so as to differentiate them from the same terms used in the cotton industry, a description of the composition of linters that has been used as the basis of the standard grades, specifications for the three sectional characters of linters as recognized and embraced in the standards, and the trading rules developed in the industry as a result of establishment of the standards.

Copies of the standard grades for American cotton linters are made in the same manner as are copies of the grades of the universal standards for American cotton. Each box or grade is composed of 12 samples representing the three standardized characters of linters and showing the range of variation, in the elements of grade, embraced in a standard grade.

Application for copies of the linters standards should be made to the Bureau of Agricultural Economics, United States Department of Agriculture, accompanied by the cost price, which has been fixed at \$5 for each grade, the same as for cotton.

Spartanburg Sells \$400,000 Note Issue.

Spartanburg, S. C.—City council has accepted a bid of \$400,378 by the Carolina National Bank of this city for the purchase of a short term note issue of \$400,000. The notes will bear interest at 4 per cent, and proceeds will be used for current taxes in anticipation of tax receipts.

America's Dealing With Nicaragua Defended and Criticised.

[Hon. James T. Begg of the Committee on Foreign Affairs of the House of Representatives recently questioned the accuracy of some statements made by Courtenay De Kalb bearing on our activities in Nicaragua. The *Manufacturers Record* therefore wrote to Mr. Begg, stating that we would be very glad to give space to his views on the subject in opposition to the position taken by Mr. De Kalb.

In reply, he presents his views and Mr. De Kalb rather briefly refers to Mr. Begg's position, his statement appearing immediately after Mr. Begg's.—Editor *Manufacturers Record*.]

A Defense of Our Activities in Nicaragua.

By JAMES T. BEGG.

As regards the statement that President Diaz is merely a puppet set up as President to administer the country without consulting the electorate, it may be said that in the elections of October, 1924, Solorzano was elected President and Sacasa Vice-President. In October, 1925, General Chamorro carried out a coup d'etat and made himself master of the situation. The Vice-President left the country, going first to Salvador and then traveled to the United States. Solorzano resigned and went to San Francisco. General Chamorro had himself elected a Senator, despite the provisions of Article 141 of the Constitution, providing that "soldiers in actual service shall not be permitted to hold offices filled by popular election." He then had himself elected First Designate and took over the Presidency. General Chamorro could not be President, as such action would be recognized as contrary to the provisions of Article 11 of the General Treaty of Peace and Amity signed by the five Central American republics on February 7, 1923. This Article reads as follows:

"Desiring to make secure in the republics of Central America the benefits which are derived from the maintenance of free institutions and to contribute at the same time toward strengthening their stability and the prestige with which they should be surrounded, they declare that every act, disposition or measure which alters the constitutional organization in any of them is to be deemed a menace to the peace of said republics, whether it proceed from any public power or from the private citizens.

"Consequently, the governments of the contracting parties will not recognize any other government which may come into power in any of the five republics through a coup d'etat or a revolution against a recognized government, so long as the freely elected representatives of the people thereof have not constitutionally reorganized the country. And even in such a case they obligate themselves not to acknowledge the recognition if any of the persons elected as President, Vice-President or Chief of State designate should fall under any of the following heads:

"1. If he should be the leader or one of the leaders of a coup d'etat or revolution, or through blood relationship or marriage, be an ascendent or descendent or brother of such leader or leaders.

"2. If he should have been a Secretary of State or should have held some high military command during the accomplishment of the coup d'etat, the revolution, or while the election was being carried on, or if he should have held this office or command within the six months preceding the coup d'etat, revolution or the election.

"Furthermore, in no case shall recognition be accorded to a Government which arises from election to power of a citizen expressly and unquestionably disqualified by the Constitution of his country as eligible to election as President, Vice-President or Chief of State designate."

The United States refused to recognize Chamorro, as it had publicly announced on June 30, 1923, that it would adopt as its policy in the future recognition of governments in Central America the provisions of Article 11 of the Treaty quoted

above. Chamorro continued in office without recognition for several months, but in the autumn of 1926 finally retired, turning over the Presidency to Senor Uriza. The United States declined to recognize him, also, as he had not been elected in a constitutional manner. Chamorro had put out of office a number of members of Congress elected in 1924. at the same time that Solorzano and Sacasa were elected, and had substituted his own followers in their place. These men now left the Congress and those originally elected were reelected, and this Congress then elected Adolfo Diaz as First Designate on November 10, 1926. Article 106 of the Nicaraguan Constitution provides as follows:

"In case of the absolute or temporary lack of a President of the Republic, the office of Chief Executive shall devolve on the Vice-President and, in default of the latter, in one of the emergency candidates in the order of their election. In the latter case, if the Congress is in session, it shall be its duty to authorize the entrustment of the office to the Representative whom it may designate, who must fulfill the requirements for President of the Republic."

At the time of this election, President Solorzano was in California and Vice-President Sacasa was in Guatemala, having been absent from Nicaragua for nearly a year. On November 17 the United States recognized Diaz as Constitutional President.

In other words, the United States refused to recognize Chamorro and Uriza, who were not constitutionally elected, but when Diaz was constitutionally elected it recognized him. There is no question of setting up a puppet Government. The Congress elected at the same time that Solorzano and Sacasa were elected, elected Diaz under the terms of their Constitution, and he was recognized by the United States. If the United States had not recognized him, it could have justly been charged with meddling with the internal political affairs of a neighboring republic. There was no choice in the matter.

It is not correct to say that Solorzano was elected "with our Marines still in control of the country." In October, 1924, there was a Legation guard of 100 Marines in Managua. This guard had been there since 1912, at the direct request of each succeeding Administration. They had nothing whatever to do with the conduct of the elections in 1924. Prior to that time the Liberals had charged that they could not carry out a revolution on account of the presence of the Marines, and that if the United States Government did not supervise the elections they could not get into office through the ballot box. They thus charged the United States with maintaining in office a government that did not represent the will of the people. On the other hand, should the Marines be withdrawn, it was freely admitted by the Liberals and others that there would be a revolution within a very few days. To meet this situation the United States Government suggested to Nicaragua that it employ an expert in electoral matters to draw up an Electoral law and that it be put in force in the elections of 1924. Also, that in accordance with the Convention of 1923, it convert its army into an efficient, well-organized constabulary. This Government stated that it felt that,

should the new Electoral law be properly enforced, the Government coming into office January 1, 1925 (when Solorzano and Sacasa actually did come in), would represent the will of the majority of the people, and that therefore that Administration could maintain itself in office without further assistance than its own efficient constabulary. The Marines could then be withdrawn without injecting any new element of danger into the situation.

Dr. Harold W. Dodds of the National Municipal League of New York was employed in 1922 and drew up a new Electoral law, which was voted in 1923, and it was this law that was first applied in the elections of 1924. This Government suggested that, as the new law was unfamiliar both to the officers that had to enforce it and the electorate who would exercise their rights under it for the first time, the Nicaraguan Government might find it advantageous to ask Dr. Dodds and other assistants to help them in carrying out its provisions. The Nicaraguan Government did ask Dr. Dodds to help with the registration of the voters in the spring of 1924, but declined to have any assistance during the actual voting in October.

Solorzano, therefore, was not elected with our Marines or any other American officials in charge. The Nicaraguan Government, under President Martinez, who was backing the candidacy of Solorzano and Sacasa, refused to have any outside assistance, and this Government had nothing whatever to do with those elections. The responsibility for them rests wholly and solely upon the Nicaraguan Government. Solorzano was not a Liberal, but a dissident Conservative. Sacasa was a Liberal. It was a coalition ticket.

After Sacasa fled the country he came to Washington to request that the United States intervene by force to put him back in the Presidency by ousting Chamorro. In other words, he asked the United States to meddle in the internal political affairs of Nicaragua and to use armed force to that end. He was told that this Government does not do this; that, in accordance with its announced policy of upholding the treaty of 1923, it would not recognize the Dictatorship of Chamorro and, also, that it would not intervene unless American lives and property should be in danger.

The American Minister was not withdrawn from Nicaragua when a Dictator assumed office. That was when he was most needed, to try to use his influence to prevent any rash action and to protect American lives and property. His staying there did not give recognition to the new Government, and it is not so understood in international law. He remained on, not out of friendship for the usurping authorities, but to protect American interests and the lives of American citizens.

It is stated that a number of members of the Nicaraguan Congress were impeached, including sympathizers of the Liberal President (Solorzano was not a Liberal) and Vice-President who had been thrown out; that their places had been taken by Conservatives, and that this rump Parliament proceeded to impeach the exiled Vice-President, Sacasa. The article contends that "at the same time the unconstitutional strictly partisan so-called 'Congress' elected Adolfo Diaz to the Presidency." As stated above, this is not correct. The Liberal members of Congress who had been put out by Chamorro were reelected and Chamorro's followers were put out after Chamorro's retirement, and the Congress that was elected with Solorzano and Sacasa in 1924 elected Diaz to the Presidency. He was then recognized by the United States. The statement is made that Diaz offered the United States "anything we wanted in exchange for American protection. So flagrant were some of the proposals of submission to the will of the United States if he were retained in power that even Washington was forced to restore the dignity of the frightened weakling." There is no truth in this. Diaz did ask for American protection against the armed intervention

of Mexico, but that was all. Mr. De Kalb in his article has let it go with a general statement. It is safe to say that he could not make it more specific.

In the next paragraph Mr. De Kalb states that Sacasa went to Puerto Cabezas on September 1, 1926, and organized a legitimist government and that "he was undoubtedly supported by Mexico, in which she was entirely within her sovereign rights." In other words, Mexico admittedly did what the United States had refused to do; that is, to support by arms one of the factions in dispute. The United States refused to recognize Chamorro or to intervene by arms against him or anybody else, or on behalf of anybody. When the Constitutional Government came in the United States recognized it. Mexico did not, but supported Sacasa with arms, thus taking sides and intervening in the internal political affairs of a neighboring country. Mexico was carrying on imperialism in its most flagrant sense, which, Mr. De Kalb says, "she was entirely within her sovereign rights" in doing. The United States maintained a strictly proper attitude and is then charged with imperialism. It was only after Sacasa started his revolution, supported by Mexico, to overthrow the Constitutional Government in Nicaragua that the United States intervened, and it intervened at first merely to protect American lives and property. United States forces were landed where the fighting was taking place, which was on the east, or Atlantic, coast. Neutral zones were established where there were Americans living and holding property, in order to protect them. The neutralization was impartially carried out, however, and Conservatives as well as Liberals who came within the neutralized zones were disarmed by the American forces.

With regard to the statement that Colonel Stimson insisted upon the retention of Adolfo Diaz in the Presidential chair until the new election in 1928, it may be said that after thoroughly canvassing the situation he found that there was no person acceptable to both the Liberals and Conservatives who could be put in temporarily; hence, the only feasible solution was to retain the Constitutional President for the balance of his term.

Our acts in Nicaragua have not "sown seeds of distrust and hatred." Those who have sown seeds of distrust and hatred are those who wilfully misstate the facts and who, without taking the trouble to find out the true situation, are only too ready to condemn their own Government and declare anything that it does is wrong and illegal, at the same time expressing as "entirely within her sovereign rights" the interested action of a foreign Government. The officials in charge of the foreign affairs of the American Government do not resent honest criticism. If anyone goes into the facts and can find a better solution of the problems confronting them, they would welcome their suggestions, but loose, irresponsible statements, misrepresenting facts and made without having taken the trouble to verify them, only do an immeasurable harm.

The United States Government has consented to supervise the 1928 elections at the joint request of the Conservative Government and the Liberal opposition. This is a policy of helpfulness to a neighboring country, a policy that has as its aim the making of those countries into stable, strong, independent governments. If the United States had "adopted a policy of imperialistic aggrandizement," it would be more sulking to such a policy to fish in troubled waters and not to try to bring about stability. If the United States had entered upon a policy of imperialistic aggrandizement, there would not now be an independent Government in Cuba, an independent Government in Panama, an independent Government in the Dominican Republic and in Haiti, or anywhere in Central America, for that matter. The countries where the United States has lent its helping hand are the most pros-

perous. Cuba, when it won its independence, was bankrupt politically, financially and economically. It is now an independent country; it has a stable Government; a country with a little over 3,000,000 inhabitants, but having \$1,300,000,000 American capital invested there, and a yearly trade of \$560,-

000,000 with the United States alone. The trade of the United States with Cuba is greater than that of any other country in Latin America. These facts speak louder than the irresponsible statements of misinformed propagandists against their own Government.

Our Responsibility to Deal Justly In Latin America.

By COURTENAY DE KALB.

The foregoing statement ignores the moral issue completely. Economic expediency does not make justice. Our Declaration of Independence has trenchant things to say regarding the right of a people to self-government.

Has there been no interference in the political affairs of a foreign nation when our Marines, as reported in the news of the world, are ordered to participate in fighting the battles of Adolfo Diaz, with a final result of killing two or three hundred followers of General Sandino? Why did not the troops of Adolfo Diaz defend him and his Administration, if he is a competent head of a sovereign independent nation? Do we maintain legation guards of 100 Marines at London or Paris? Do we supervise elections in England or France? If such things were done, would we be following the precepts laid down in our great Declaration of Independence? Why is an exception made of Nicaragua? Does it make friends for us in Latin America? Surely, their friendship is worth more to us than their fear and distrust.

We need to look into the future and realize that the solidarity of the United States and Latin America in bonds of cordial trust and sympathy constitutes for us a bulwark of strength against designing powers across the seas. There are jealous peoples that have caused many anxieties regarding our own security. Let us follow in the path of such strict rectitude that we will not even attempt to do in weaker countries the things that would cause us to fly to arms if England or Japan should try to do them on the soil of our own United States.

In a letter to the MANUFACTURERS RECORD, discussing this subject, Mr. DeKalb made some interesting comments which we have secured his permission to use. In his letter, he wrote:

"The whole intent of my argument lies against imperialism, because I know that it is a bad policy, destined, if persisted in, to cause the United States serious trouble in the end. I wish to make sure that we pursue a policy that will yield friendship between all the peoples on this continent, and that shall serve as a bulwark against infringement of the rights of any of the American nations, ourselves included. I want to preserve peace at home, and when we ignore the rights of other nations to their independence we invite war. For the sake of imperialism, which means inevitably the sacrifice of national welfare for the benefit of a few, it is the duty of all good Americans to protest, and to elect men who will represent the people as a whole.

"We cannot go on making 'mediatized' nations of our neighbor States without inviting foreign alliances in their support. It is the sure way to destroy all that is worth while in the Monroe Doctrine, and to encourage a foreign war. The more we enlarge our sphere of influence, the more difficult will it be to defend, and, because so widely spread over the Western Hemisphere, the weaker will be the defenses of our own United States.

"No one who has followed the statements of informed men, in and out of the service, can believe that our effective fighting Navy is on a par with that of England, and our Army is absurdly small. Our air defense is inferior to other first-class powers. We have not the materials in the country for an active military campaign of long duration, without stifling

many of our most vital industries. We have utterly neglected to provide means for producing a reasonably safe amount of fixed nitrogen. In time of peace, we have neglected to prepare our defenses in the event of war.

"Sir Austen Chamberlain recently gave the broad impression to the world of what he was thinking with regard to our handling of Latin American affairs, from which Señor Villegas of Chile took courage to make some very pointed remarks at the meeting of the League of Nations Assembly in Geneva. England has need of seeking a new ascendancy to offset the subdivision of the old Empire into self-governing and wholly independent commonwealths. Without it, she must decline in power, and she seems destined, from all the signs, to make a renewed struggle to retain world mastery. The individual economic needs of the former British colonies will determine their acts in the case of future wars in which England may become involved. The possible effect upon us deserves to be pondered well. The hostility of Argentina toward us has been growing, and Chile has been intensely aggravated by our efforts at settlement of the Tacna-Arica dispute. That indicates something very unlike the spirit of brotherhood between us and them that formerly existed, and which it is to our interest steadily to cultivate.

"There is an ancient homely saying that is terribly true and which applies with special force in international relations: 'You can catch more flies with molasses than with vinegar.' With cordial friendship, with hearty reciprocity in trade, with adequate banking facilities for exchange between us and them, with attention to the details of commerce, which means to cater to their needs instead of merely trying to use them for that type of foreign commerce known as 'dumping,' and by creating more and more steamship lines to promote trade with our neighbors on the South, we will be able to increase the approachment that in the past has so sadly been neglected. We have failed to seek the friendship of Latin America. We have pursued policies too often that have resulted in antagonizing and driving them from us. Did it mean nothing that Peru, instead of adopting a currency equivalent to our own, which would have facilitated easy exchange, recently chose the system of pounds, shillings and pence? I am convinced that we never win friendship by bullying weaker countries, by maintaining so-called legation guards, so strong as to serve as an intimidation in conjunction with the strength behind them, by managing their elections, by reducing them to the inferior status of mediatized States.

"There is a way, however, to win their staunch adherence. That is through mutual respect, by protecting them against foreign encroachment and by encouraging them to study our system of finance, as Japan has studied finance throughout all the world; but, we must equally keep completely detached from any connection with their own treasuries. Moreover, for the sake of goodwill it is eminently desirable that we never loan money to any American governments, and that we make it plain that the use of force for the collection of debts from American governments will not be acceptable to the United States. Such a stand for the future would so distinctly depreciate any additional foreign bonds that might be issued by Latin America as to save subsequent embarrassment. It is safe to say that any country that will put its house in order can raise all the money that it strictly needs by internal loans. It will insure the improvement of the countries themselves, and lead to cordial relations throughout the world. Such a recommendation will be unpopular with bankers, but the interests of the people are of more account. It is a way to insure peace and strength, and would help forward pacific relations with us and all other nations."

Over \$17,500,000 for Southern Rivers and Harbors.

SOUTH TO GET MORE THAN ONE-THIRD OF TOTAL WATERWAY APPROPRIATIONS FOR FISCAL YEAR 1929.

By GEORGE H. MANNING.

The harbors, inland waterways and intercoastal canals of the South will get approximately one-third of the total appropriations for rivers and harbors in the United States for the fiscal year 1929, which begins July 1, 1928.

Out of the total of \$55,886,310 which the Chief of Engineers for Rivers and Harbors has asked of Congress for rivers and harbors work in the next fiscal year, more than \$17,500,000 is requested for improvement and maintenance of the harbors and waterways of the South.

In addition to this amount, Maj.-Gen. Edgar Jadwin, the War Department's Chief of Engineers, has asked Congress for \$10,000,000 for flood control on the Mississippi River and its tributaries, and \$300,000 for operation, maintenance and repair of Dam No. 2, Tennessee River, including the hydro-electrical development.

The development of the South's commerce and industry will be hastened by such generous appropriations for the improvement of its waterways, and this amount is considered warranted by the rapid advance of the South in recent years.

The largest single appropriation asked for one project in the South is for the development of the Mississippi River between the Ohio and the Missouri rivers. The Chief of Engineers estimates that \$2,500,000 can be profitably spent next year in constructing and maintaining regulating works to guarantee a channel 9 feet deep and 300 feet wide, continuing the dredging work, and otherwise improving the channel so that the southern portions of the Mississippi will be opened to traffic from points north of St. Louis.

The increasing tonnage of products of greater value on the Mississippi is encouraging the improvement of the river from its headwaters to the Gulf of Mexico, as well as the maintenance of the barge lines on the river.

It is estimated that it will take \$13,500,000 to complete the work on the Mississippi.

For the complete development of the waterways at Norfolk, Va., including Hampton Roads, the James River, and the channel to Newport News, a total of \$1,342,500 is asked. This will be used chiefly in dredging and stabilizing the various channels and constructing and repairing wing dams on the James River. A new fireproof office building will be constructed at Norfolk at a cost of \$50,000.

The 1926 traffic of the port of Norfolk showed an increase of 41 per cent in tonnage and 21 per cent in value over the traffic of the previous year. Much of this was due to an increase in exports of coal.

Half a million dollars is asked for the development of the inland waterway from Norfolk to Beaufort Inlet. This is to be used in extending the Alligator River-Pungo River land cut, in building bridge tenders, redredging and maintaining the existing channel. On this waterway, the traffic increased 23 per cent last year.

The waterways and harbors around Beaufort also are to have large appropriations, \$1,085,750 for the inland waterway from Beaufort to the Cape Fear River, including the waterway to Jacksonville, N. C.; \$18,000 for Beaufort Harbor, and \$5000 for Beaufort Inlet. The Cape Fear River is to get, if Congress heeds the advice of the War Department, some \$242,000 for its development and improvement.

Florida waterways come in for large appropriations, \$1,042,400 for the Miami harbor; \$225,000 for Tampa; \$702,000 for the intercoastal waterway from Jacksonville to Miami;

\$475,000 for the St. John's River from Jacksonville to the ocean; and various other sums for smaller projects in the State. Rock excavation and dredging will take most of the appropriation for the intercoastal waterway, and dredging and jetty construction will be the chief work in Miami harbor.

For the Charleston (S. C.) harbor, \$150,000 is asked; for the Savannah (Ga.) harbor, \$888,000; for the Mobile (Ala.) harbor, \$280,000. The North Customhouse pier will be extended with part of Charleston's appropriation. The Mobile appropriation is larger than the average for this project during the preceding five years, because it has been found necessary to carry on continuous dredging to meet the requirements of commerce and navigation.

For the maintenance of the Southwest Pass of the Mississippi River, \$415,000 is asked, and something like \$150,000 is asked for other waterways in Southern Louisiana.

The intercoastal waterway from the Mississippi River at New Orleans along the Texas coast to Corpus Christi needs \$1,354,000, and the Sabine-Neches waterway will require \$1,476,000, according to the Chief Engineer's estimates. It is expected that with this appropriation for the Sabine-Neches waterway, the Sabine Pass jetty channel, Sabine Pass, Port Arthur Canal, and the Sabine-Neches Canal can be completed, and the Beaumont turning basin can be extended upstream.

Other Texas rivers and harbors will also get generous appropriations if Congress follows the recommendations of the Chief of Engineers. For Galveston harbor, Galveston channel, and the channel from Galveston harbor to Texas City, and the channel to Port Bolivar, a total of \$1,385,200 is asked, and for the Houston Ship Channel \$694,000 is asked. For the Brazos River \$304,600 is asked, and for Port Aransas, \$166,100.

The chief of engineers says in his recommendations for the improvements of the Galveston harbor: "The improvements (on which \$5,647,410 have already been spent by the Government, in addition to large contributed sums) have made Galveston one of the most important ports of the United States in value of exports, providing a convenient outlet for the products of the Middle Western and the Southwestern States."

The same is true of Houston, where the ship channel has given water rates to a point 50 miles farther inland than Galveston, and import and industrial development has taken place along the channel as it has become an importing point for crude oil and an exporting point for cotton and cotton products, oil products and general commodities.

Throughout the report of the chief of engineers the sections dealing with Southern waterways abound in evidence of the rapid growth of the South industrially and commercially. Virtually everywhere along these waterways both the harbors and the inland waterways, traffic has increased tremendously in recent years, testifying both to the natural development of the South and the value of the river and harbor projects in aiding this development.

During the fiscal year 1928 the United States spent on the improvement of rivers and harbors a total of \$24,344,476, and \$16,560,849 on the maintenance of the projects in use. Of these amounts seacoast harbors and channels got \$8,762,043 for improvement, and \$11,618,200 for maintenance; lake harbors and channels got \$899,611 for improvements and \$2,075,-

085 for maintenance; and inland waterways got \$14,682,822 for improvement and \$2,867,564 for maintenance.

Appropriations asked of Congress by the Rivers and Harbors Engineers to be expended on Southern Waterways during next fiscal year commencing July 1, 1928.

Baltimore Harbor and Channels.....	\$225,000
Potomac River at Washington.....	35,000
Potomac River below Washington.....	112,000
Ocoquan Creek, Va.....	1,000
Rappahannock River, Va.....	13,000
Mulberry Creek, Va.....	2,500
Urbanna Creek, Va.....	8,000
Mattaponi River, Va.....	1,000
Pamunkey River, Va.....	800
Norfolk Harbor.....	522,500
Thimble Shoals Channel, Va.....	82,500
Channel to Newport News, Va.....	607,500
James River, Va.....	130,000
Appomattox River, Va.....	91,000
Pagan River, Va.....	2,000
Nansemond River, Va.....	2,000
Onancock River, Va.....	22,000
Inland Waterway from Norfolk, Va., to Beaufort Inlet...	500,000
Black Water River, Va.....	3,000
Meherrin River, N. C.....	3,000
Roanoke River, N. C.....	3,000
Scuppernon River, N. C.....	3,000
Pamlico and Tar Rivers, N. C.....	32,000
Nuese River, N. C.....	52,800
Contentnea Creek, N. C.....	750
Trent River, N. C.....	4,700
Harbor at Beaufort, N. C.....	18,000
Waterway connecting Core Sound and Beaufort Harbor..	7,500
Inland waterway, Beaufort to Cape Fear River, including waterway to Jacksonville, N. C.....	1,085,750
Beaufort Inlet.....	5,000
Cape Fear River, at and below Wilmington.....	230,000
Cape Fear River, above Wilmington, N. C.....	12,000
Northeast (Cape Fear) River, N. C.....	4,000
Black River, N. C.....	3,000
Operating locks and dams, Cape Fear River.....	12,000
Winyah Bay, S. C.....	35,000
Waccamaw River.....	3,500
Great Pee Dee River, S. C.....	3,500
Waterway, Charleston to Winyah Bay.....	20,000
Santee River.....	4,000
Charleston Harbor, S. C.....	150,000
Waterway from Charleston to Beaufort, S. C.....	8,000
Savannah Harbor.....	888,000
Savannah River, below Augusta, Ga.....	22,000
Waterway between Beaufort, S. C. and St. Johns River, Fla.....	56,000
Altamaha, Oconee and Ocmulgee Rivers, Ga.....	44,000
Brunswick Harbor, Ga.....	88,000
Satilla River, Ga.....	2,500
Fernandina Harbor, Fla.....	2,000
St. John's River, Jacksonville to the ocean.....	475,000
St. John's River, Jacksonville to Palatka.....	20,000
Lake Crescent and Dunn's Creek, Fla.....	50,000
Intercoastal Waterway, Jacksonville to Miami.....	702,000
Harbor at Miami.....	1,042,400
Harbor at Key West.....	20,000
Kissimmee River.....	5,000
Caloosahatchie River.....	25,000
Charlotte Harbor.....	60,000
Sarasota Bay.....	15,000
Channel from Clearwater Harbor, through Boca Celba to Tampa Bay.....	10,000
Ancote River.....	38,300
Withlacoochee River.....	5,000
Tampa Harbor.....	225,000
Removing water hyacinth from navigable waters of Florida	7,500
Carabelle Bar and Harbor, Fla.....	7,000
Apalachicola Bay.....	20,000
Apalachicola River, Lee Slough and Lower Chipola.....	7,000
Upper Chipola from Marianna to channel.....	10,000
Flint River, Ga.....	60,000
Chattahoochee River, Georgia and Florida.....	50,000
Channel from Apalachicola River to St. Andrew's Bay..	5,000
St. Andrew's Bay.....	50,000
Choctawhatchee River.....	31,000
Narrows in Santa Rosa Sound.....	5,000
Escambia and Conecuh Rivers.....	5,000
Alabama River.....	100,000
Mobile Bay, Mobile Harbor.....	280,000

Black Warrior, Warrior and Tombigbee Rivers.....	40,000
Pascagoula Harbor.....	25,000
Gulfport Harbor and Ship Island Pass.....	97,500
Biloxi Harbor.....	7,500
Southwest Pass, Mississippi River.....	415,000
Mississippi River between Baton Rouge and New Orleans	14,000
Bayou Bonfouca.....	16,500
Amite River and Bayou Manchac.....	5,000
Little Caillou Bayou.....	85,000
Louisiana and Texas Intercoastal Waterway, New Orleans, Sabine section.....	770,000
Removing water hyacinth from Louisiana Waterway.....	29,000
Sabine-Neches Waterway.....	1,476,000
Johnsons Bayou.....	7,000
Louisiana-Texas Intercoastal Waterway, Sabine River to Corpus Christi section.....	584,100
Galveston Harbor.....	229,500
Galveston Channel.....	887,500
Channel from Galveston Harbor to Texas City.....	247,500
Channel to Port Bolivar.....	20,700
Houston Ship Channel.....	694,000
Double Bayou, Texas.....	14,800
Anahuac Channel.....	22,000
Trinity River.....	24,000
Clear Creek.....	7,500
Freeport Harbor.....	72,500
Brazos River, from Velasco to Old Washington.....	304,600
Port Aransas.....	166,100
Brazos Island Harbor.....	41,000
Red River, below Fulton, Ark.....	50,000
Ouchita and Black Rivers, Ark.-La.....	58,500
Yazoo River.....	15,000
Big Sunflower River.....	10,500
Arkansas River.....	35,000
White River, Ark.....	32,000
Black River.....	18,750
Current River, Ark.-Mo.....	4,500
St. Francis and L'Anguille Rivers.....	8,500
Mississippi River, between the Ohio and Missouri Rivers.	2,500,000
Total.....	\$17,539,000

St. Louis Chamber of Commerce Plans Reorganization.

St. Louis, December 3—[Special.]—With a view to transforming the St. Louis Chamber of Commerce into an aggressive business organization, extensive plans for reorganization, formulated by Harold M. Bixby, president, and a special reorganization committee, have been adopted by the board of directors.

Among the innovations advocated are the selection of a paid president, the men now known as president and vice-presidents to be active directors; establish headquarters in a modern building, and generally intensified interest and co-operation between members for the solution of business and civic problems, for the advancement of St. Louis' commercial welfare. A budget program involving \$250,000 also was outlined.

It is planned to create an active aviation bureau looking to the establishment of St. Louis as the aviation center of America. The reorganization plan advocates adoption, after a careful study, of a program for improving transportation facilities, including rail, water and highway, shipping, street railways, motorbus, interurban and rapid transit service.

\$700,000 Library for Hopkins Medical School.

The contract for the erection of the William H. Welch Medical Library of the Johns Hopkins Medical School has been let to the Consolidated Engineering Company, Baltimore, after plans by Edward L. Tilton of New York. The project will necessitate a total expenditure of approximately \$700,000. It will be a 3½-story structure of Indiana limestone with a granite base.

A Georgia Banker Clearly Sets Forth Some of the South's Advantages.

Eatonton, Ga., December 1.

Editor Manufacturers Record:

Your representative Mr. Carson called at my house, and when I expressed my high appreciation for the benefits the MANUFACTURERS RECORD had rendered the South and of yourself, he asked me to write. This is my apology for intruding.

Our Commissioner of Agriculture, Hon. Eugene Talmadge, invited a few chosen workers for the best interests of Georgia, to meet in the Senate chamber in Atlanta to devise ways and means for bringing to our State Northern farmers. While appreciating his motive, I feel that our Commonwealth needs non-resident, well-equipped men to guide in such a movement, intended to benefit both the citizens of Georgia and the prospective settlers.

No native Georgian could speak as convincingly of the attractions our State offers as Ex-Governor Chase S. Osborn of Michigan, now an enthusiast in his appreciation of the climate, soil and possibilities. I quote from him: "Having seen all the earth and having wintered in California and Florida and along the Riviera and in Egypt and in the South Seas, and, in fact, every place thought to be attractive in winter, it was easy to discover the advantages and attractions of South Georgia."

I understand that Governor Osborn when visited by his friend Mortimer E. Cooley, dean of the College of Engineering, University of Michigan, suggested that the college professor buy a farm. This resulted in another Michigan man, equipped with the best scientific knowledge, buying not one farm but eight farms in Georgia. If we had the world to choose from, we could not improve on these new citizens. They have grasped what I have felt for half a century, that the South is to be preferred as a place of residence. The West now offers no invitation as pleasing to the prospective settler as does the South. The temperate climate of the middle south of Europe and America approaches the nearest to perfection for the white race. Surely our agricultural advantages surpass those of the North.

Recently the Atlantic Monthly published a series of articles, vouched for as true experiences by the editors of that magazine. One shudders at the hardships narrated. No drouth has ever occurred in any Southern State to approach those annually that Hilda Rose experienced in the northwest of the United States. No grass, no hay for winter feeding, necessitating the removal of straw thatch roofing from the outbuildings to preserve the life of the most valuable of their domestic animals; losing part of their bovines from actual winter starvation for want of forage. No summer has ever been sufficiently dry to cause a hay crop to fail during my residence in Georgia of over fifty years. The thermometer registers no higher here in summer than I have observed in New York, New Jersey and adjacent States but the summer temperature tarries longer in the Southern States.

The Northern family must have been deprived of sufficient milk and cream in winter; there is no shortage here, either for home use or for sale. One young dairyman sold the local creamery in Eatonton sweet cream that netted him from his herd consisting of 49 cows, \$8643.57, all for the year 1926, and left all milk separated from the cream, for feeding calves, pigs and other uses. If any other dairyman, resident in the North or West can parallel the income from as moderate an investment of capital the fact should be published. Here it is possible to pay the purchase price of our cheap farm lands from one or two years' yield of cows. The climate and land are admirably adapted to the livestock industry in all its branches, needing only a moderate supply of mineral

salts for the domestic animals. It is suited also to the outdoor culture of nearly all economic fruits except the extreme tropical, such as oranges, bananas and pineapples. Even these thrive under glass without artificial heat. The objectionable factor to fruit raising is the abundance of the yield, which often oversupplies the markets and leaves too little net income after paying freight.

The Southern States' too abundant yield of cotton, before the advent of the boll weevil, oversupplied the world and reduced the planter's income below the American standard. When the farmers begin to follow the instructions of research workers in boll weevil control, the present destruction wrought by insect enemies may more than be offset by the enhancement in price.

The foothills of the Piedmont section are blessed with the most varied native silva and flora and adapted to the cultivation of endless varieties of foreign and imported plants, economic as well as ornamental; this adds to the esthetic enjoyment of rural life.

The cotton States profit by sufficient cold and frost to overcome the monotony of a tropical climate, with a low thermometer here for only a few days each winter. The writer previously quoted in the Atlantic Monthly appears to expect 40 degrees below zero in winter; residents here call 32 degrees above zero cold, and 10 to 12 above as extreme. Our temperature and surroundings are now bringing manufacturing plants from the Northeast. Ultimately the farmers will follow the example of the Northern capitalists, and buy our cheap farm lands adapted to the cultivation of so many economic crops.

BENJ. W. HUNT.

A Magazine Devoted to "East Texas."

The November issue of "East Texas," the official publication of the East Texas Chamber of Commerce, Marshall and Longview, Texas, is a fine number of this always attractive and enterprising periodical. The purpose of the magazine is to awaken and revive civic pride—educating, informing, enlightening and stimulating civic workers and other citizens to optimism and individual responsibility for the advancement of their part of the Lone Star State. In the opening article "Home Orchard Campaign Is Inaugurated," the editor describes what is being done along that line. This is followed by special contributions entitled "Marketing Methods," "A Natural Land of Vineyards," "The Forestry Problem," "Planting and Care of the Home Orchard," etc. The entire edition is devoted to East Texas; and its advantages, beauties and general attractiveness to both residents and prospective settlers are portrayed in accurate and entertaining style. Not the least interesting item is headed "The Most Valuable Crop in Texas Is the Baby Crop." It goes on to say that during the entire year of 1926 there were 84,000 babies born in Texas and they average 7½ pounds in weight or an aggregate of 315 tons of new humanity. They are valued at \$500,000,000. The front-cover page has a picture of a fruit tree in full bloom.

Contract for \$1,000,000 Pipe Line.

The Janes Contracting Company of Wichita Falls, Texas, recently reported having contract to lay a \$1,000,000 pipe line from the Winkler county oil fields in Oklahoma to the tank farm at Midland, Okla., for the Atlantic Oil Producing Company of Dallas, Texas, wires that its contract covers approximately 80 miles of 10-inch welded line. The contract calls for welding, painting and ditching, but the Janes Company has sublet the welding to Meador & Whitaker of Burkburnett, Texas.

Physical and Chemical Research Major Factors in Solution of Highway Problems.

By CARROLL E. WILLIAMS.

The problem of improving and maintaining the nation's highways and of moving over them with maximum safety a steadily increasing number of fast moving freight and passenger motor vehicles without congestion can be and is being effectively solved by research. This is what more than 350 delegates to the seventh annual meeting of the Highway Research Board, held last Thursday and Friday in Washington, were told by various committees that have been at work during the past year studying highway and motor transportation development throughout the country. The meeting was declared by the officials to be the most successful yet held, both from the standpoint of attendance and considering the importance of the papers presented.

In a comparatively few years 500,000 miles of highways have been improved in this country, involving a vast expenditure of money, Charles M. Upham, director of the board, pointed out to the organization at its opening session, but the problem of improving the 2,500,000 additional miles of unsurfaced highways that go to make up the nation's complete road system now rests largely upon physical and chemical research. Mr. Upham said:

"The answer to the road building problem is research, whereby cheap and abundant materials that today are unfit for road construction may, by the aid of the chemist, be made into satisfactory road materials. This cannot be done without research, yet, unless this is given practical application it will have little value. It may come from new discoveries; it may be the rearrangement of research already completed.

"Highway progress has drawn on the previously completed pure research and on the research now being carried on by some States, counties, cities, Governmental departments and bureaus and a few industries. In the main, highway construction development has consisted of the physical rearrangement of materials. Outside of a few materials, chemistry has done little for the highways as compared with what it has done for other industries. It has been said that every advance in civilization is a rearrangement of materials, first physical and then chemical. Inasmuch as most of our progress in highway development has been physical, I hope we are on the eve of the chemical rearrangement, and with it I look for far greater economic progress.

"In the highway industry there have been no great research programs or projects undertaken that will compare with some of the very important practical applications in the industries. Those familiar with the development of television might ask what development there is in road building that can be considered as representing similar effort. The development of a special gasoline to eliminate knocking in an internal combustion engine reads like a novel, and it proves that these important industrial applications of science are seldom a matter of chance, but the well-directed efforts of genius. An analogous problem in highway construction not yet solved, is in the treating of clays in such a way as to change their characteristics so that they will serve as a satisfactory road surface."

In his closing remarks Mr. Upham urged that industry supply further funds to aid research, and suggested that paid chairmen and paid secretaries for various important committees would make effective research possible on a big scale.

Frank B. Jewett, vice-president and director of the American Telephone and Telegraph Company, New York city, and chairman pro tem. of the Division of Engineering and Industrial Research, spoke on the methods of procedure in industrial research. "In road building I have been impressed with the fact that generally very little is known about the materials used," he said. "It seems to be assumed that good workmanship will result in a good road, whereas success or failure may depend on the presence or the absence of a small percentage of a certain substance in one of the several

materials used in building a particular type of road." Mr. Jewett predicted a new era in highway construction when the research chemist has thoroughly analyzed the materials used and found out what their behavior is under various conditions.

The address of welcome was delivered by Dr. Vernon Kellogg, of the National Research Council, Washington. Prof. T. R. Agg, dean of engineering of the Iowa State College, Ames, Iowa, presided at the session Thursday morning.

A. B. Fletcher, of the United States Bureau of Public Roads, Washington, presented the report of the Committee on Causes and Prevention of Highway Accidents, including studies by members of the committee, a number of whom presented individual papers. The members include: H. E. Breed, New York; J. S. Crandell, University of Illinois, Urbana, Ill.; A. W. Dean, Massachusetts Department of Public Works, Boston; Dr. Knight Dunlap, Johns Hopkins University, Baltimore; A. N. Johnson, University of Maryland, College Park; M. G. Lloyd, Bureau of Streets, Washington; Alvan Macauley, Packard Motor Company, Detroit, and S. J. Williams, National Safety Council, Chicago, Ill.

W. C. Markham, executive secretary of the American Association of State Highway Officials, Washington, presided at the afternoon session on the opening day. Prof. T. R. Agg, chairman of the Committee on Economic Theory of Highway Improvement, read an elaborate report representing studies by 13 members. The report of the Committee on Structural Design of Roads was presented by A. T. Goldbeck of the National Crushed Stone Association, Washington. H. S. Mattimore of the Pennsylvania State Highway Department, reported for the Committee on Character and Use of Road Materials.

At the opening session on Friday D. S. Abrams of the International Cement Company presided. A. J. Brosseau, president of Mack Trucks, Inc., New York city, speaking on "The Uses of Highway Finance," pointed out that the public's investment in improved highways and motor vehicles now exceeds more than \$20,000,000,000 and that annually more than \$1,250,000,000 is being expended for building new roads and maintaining established ones, and that the plans now employed for raising funds for this work are generally satisfactory to the public. He pointed out the many varied benefits that have resulted from the building of improved roads and argued that the investment was a wise one from every standpoint.

Maurice Holland of the Division of Engineering and Industrial Research, New York city, urged that the delegates do everything possible to dramatize research so that it would appeal to the public at large, and thereby indirectly secure for it the support of industry generally, that funds would be forthcoming to carry forward the important work now under way and planned. Mr. Holland suggested that four means be used to carry the message of research and what it is accomplishing to the public, namely: The daily press, trade papers, magazines, etc.; radio; lectures to individual groups and motion pictures. He emphasized, however, that in the use of any of these methods it is essential that the subjects be treated so interestingly and in such a manner as to be immediately appealing to the lay mind. The speaker told of the manner in which aviation was slowly developed over a long period of years. Then along came Lindbergh and his epoch-making flight from New York to Paris and the

whole country began talking aviation and is still talking it, with the result that 117 airplane factories working at capacity are not able to supply the demands. If some one can dramatize research as Lindbergh dramatized aviation, then the greatest possible good will result for the betterment of mankind, said Mr. Holland.

Speaking on the preceding evening at the annual dinner of the Highway Research Board, Mr. Holland predicted as a mechanical certainty a maximum speed of 500 miles an hour in the air and 300 miles on land. "Speed is the characteristic of the age," he declared, "and research must be geared in harmony with this speed. Up until 1895 the world thought in terms of eight miles an hour; now it thinks in terms of hundreds of miles an hour," he said, and while admitting that the 500-mile-an-hour level would not be practical for transportation he declared it would serve to demonstrate "what mechanical research can do." Research must, therefore, be put in high gear, said Mr. Holland, for it is now necessary to meet fast-changing conditions to do in a few years what it required many years to do a decade or so ago.

An illuminating report on Highway Traffic Analysis was given by a committee headed by G. E. Hamlin of the Connecticut State Highway Commission, Hartford, and composed of A. H. Blanchard, University of Michigan; C. D. Buck, State Highway Commission, Dover, Del.; N. W. Dougherty, University of Tennessee, Knoxville; A. N. Johnson, University of Maryland, College Park; H. J. Kirk, State Highway Department, Springfield, Ill.; J. G. McKay, United States Bureau of Public Roads, Washington, and W. A. Van Duzer, Department of Highways, Harrisburg, Pa. Among the many subjects touched upon were: The carrying capacities of roads of different widths; the effect of curves; cross-roads, school zones, grades, etc., in slowing up the movement of traffic; the efficiency of various types of traffic signals; the methods employed in making traffic surveys; special devices to record the actual movement of a motor vehicle were described. W. G. Sloan of the New Jersey State Highway Commission, Trenton, opened the general discussion and presented valuable data on the manner in which New Jersey is making traffic counts, etc.

Other reports at the Friday morning session were as follows: Committee on Highway Finance, H. R. Trumbower of the University of Wisconsin, Madison, chairman; Culvert Investigation Report, R. W. Crum, chairman; Report of Committee on Maintenance, W. H. Root, Iowa State Highway Commission, Ames, chairman.

H. G. Shirley of the Virginia State Highway Commission presided at the afternoon session, which was devoted principally to the report of the Committee on Low Cost Improved Road Investigation, headed by C. N. Conner of the Highway Research Board, Washington. The full report, totaling 60,000 words, will cover about 20 different types of roads and will comprise one of the most authoritative and complete works on the subject yet prepared, it is said.

The nation has approximately 2,500,000 miles of highways which may be classed as of secondary importance, it was pointed out. It is not economically possible to pave these highways with high types of surfacing. A progressive type of highway may be constructed at moderate cost which will meet the demands of traffic on these routes, and this construction should be carried out as fast as economic conditions will permit.

Other papers included:

Untreated Traffic-bound Types, H. J. Kirk, Ohio State Highway Department; Subgrades and Soils, C. A. Hogentogler, U. S. Bureau of Public Roads; Selection of Materials for Base and Surface Treatments, N. S. Anderson, South Caro-

line State Highway Department; Untreated Surfaces of Sand-Clay, Chert and Gravel, W. R. Neel, Georgia State Highway Department; Mixed-in Place Surfaces Using Local Aggregates With Tar or Asphalt, J. T. Pauls, U. S. Bureau of Public Roads; Mixed-in Place Surfaces of Stone or Gravel and Fuel Oil, C. L. McKesson, California Highway Commission; Puddle Macadam Using Soft Stone, B. E. Gray, West Virginia State Road Commission; Construction Methods and Equipment, A. H. Hinkle, Indiana State Highway Commission; Maintenance Methods and Equipment, W. A. Van Duzer, Pennsylvania State Highway Department, and Traffic Capacity and Service of Low-Cost Road, J. C. McKay, U. S. Bureau of Public Roads.

The following were elected members of the executive committee:

F. H. Eno, professor of engineering, Ohio State University, chairman; H. C. Dickinson, Bureau of Standards, vice-chairman; Thomas H. MacDonald, chief of the Bureau of Public Roads; T. R. Agg, dean of engineering, Iowa State University; Charles M. Upham, managing director, American Road Builders' Association; Roy D. Chapin, president of the National Automobile Chamber of Commerce, and William Spraragen, secretary of engineering and industrial research of the National Research Council.

Important Meeting of Engineering Education Society to Be Held in the South.

Chapel Hill, N. C.—The Society for the Promotion of Engineering Education, embracing in its membership the leading engineering educators and institutions in the country, will hold its next annual meeting at the University of North Carolina during the week of June 25, 1928, according to an announcement by Dean G. M. Braune of the School of Engineering. This is the first time since the formation of the society in 1892 that it has held a meeting south of Richmond and in doing so this coming year recognition is made of the marked advances in engineering education in the South and particularly at the University of North Carolina, it is said.

It is believed that 400 or more delegates will attend the meeting, which will be especially designed to focus the attention of the industrial South upon the importance of its engineering schools.

Work Under Way on \$600,000 Tulsa Building.

Footings are being placed for the foundation of the new \$600,000 administration building to be erected in Tulsa, Okla., by the Oklahoma Natural Gas Company, according to advices from the Shallenberger Construction Company of Tulsa, general contractor for the structure. The building will be of concrete, brick, stone and terra cotta, 50 by 140 feet, 10 stories, with built-up roof. A. M. Atkinson is the architect and O. N. Roads, engineer, both of Tulsa. The following sub-contracts have been awarded:

Cut stone—Consolidated Cut Stone Company, Tulsa.

Electrical work—Dodge Electric Company, Tulsa.

Granite—Cold Spring Granite Company, Cold Spring, Minn.

Heating and plumbing—J. L. Heath Plumbing and Heating Company, Tulsa.

One freight and two passenger elevators—Tulsa branch of Otis Elevator Company, New York.

Terra cotta—Northwestern Terra Cotta Company, Chicago.

15 Additional Dwellings for Cement Plant.

Quanah, Texas.—Fifteen additional dwellings will be built by the Certainteed Products Company at its cement plant at Milltown, about four miles from this city. The company recently completed 30 houses, but the need of a larger working force occasioned by the \$750,000 wallboard plant completed last year, makes it necessary to provide additional housing. Several hundred men are employed at the mills.

Some Facts About the Labor Program of the Average Farmer.

By DR. ANDREW M. SOULE, President, Georgia State College of Agriculture, Athens.

[This interesting statement from Dr. Soule comes in reply to a report sent him to the effect that some business men who ought to know better were claiming some one had proved that farmers on the average work only 58½ days a year.—Editor Manufacturers Record.]

The claim that the average farmer works only 58½ out of every 365 days does not seem well substantiated in so far as Georgia is concerned. We do not know just how this conclusion was reached by those who advocate it; but we are inclined to think that in any event they have not investigated the record with the care and consideration which should have been accorded a proposition of such gravity before a statement of the character enunciated above was made public. It may be that those who hold this view of the situation are thinking of the ten-hour or probably the sunrise to sunset day which the farmer puts in at certain stressful seasons of the year. Even in that event, I think the conclusion reached is still entirely at variance with the facts in the case.

This institution has been fortunate enough to make certain agricultural surveys in typical counties of this State. These surveys are based upon the procedure followed by farmers operating on programs covering 40 acres of land, 79 acres of land, 150 acres of land and 335 acres of land. Our investigations indicated that the average productive labor days per farm are as follows: For the 40 acre farms, 323 days or 8.07 days per acre. For the 79 acre farms 531 days or 6.72 days per acre. For the 150 acre farms 901 days or 6.01 days per acre. For the 335 acre farms 2113 or 6.31 days per acre. It is probably true that on the forty-acre tracts, the farmer's family all contributed to the program of work which was inaugurated and carried into effect. It is possible that from three to five individuals may perform a part of this labor. Some of them of course would be children and should not therefore be regarded as performing more than one-fourth to one-half of an adult laborer's normal load of work. The chances are that a good part of the work they did would be in the nature of picking cotton. In any event, we would be inclined to think that the average farmer operating 40 acres of land would be performing two or three times as much labor on the average as he has been commonly credited with by those who view the situation from the standpoint set out in the initial paragraph of this article.

Remember also that these figures apply only to cultivated crops. What about the care of the animals night and morning, and the endless chores which must be performed 365 days a year on any well regulated farm? If there is a flock of chickens, a brood sow or two, two or three cows and as many calves, and a pair of mules to be taken care of, somebody will of necessity have to perform a good deal of extra labor in looking after and caring for them satisfactorily. On most farms there are some fences to be kept up, some ditches to be cleaned out, some terraces to be built, some roadways to be repaired, wood to be cut and hauled, or new areas of land cleared. If there is a home orchard and garden, quite a few days' labor must be expended thereon.

I believe any man who operates forty acres of land successfully with his family will find most of his time occupied. If he is one of the shiftless class that moves each year and accomplishes nothing, no doubt his working days will be less than they ought to be. A careful survey of Georgia's livestock industries which was recently completed indicated that 25 per cent of our farmers were making very good money. Another 25 per cent a fair amount of money, while 25 per cent of the balance were occasionally breaking even and sometimes showing a loss. The balance were in that unfortunate

class where the credit column is always on the wrong side of the ledger. These are the ones no doubt that work either with lack of intelligence and skill or do not perform enough well systematized labor to count effectively toward the maintenance of a desirable program of agricultural production.

I know of no man who has a greater diversity of responsibility or a larger number of insistent duties to perform every day than the individual operating a reasonably well diversified farm in the South. I think also that many of our farmers are performing far more labor than they have been credited with. Moreover, I have no sympathy with the individual who is continually giving out criticisms against the farmer without knowing what he is talking about. This business of unloading all our sins of omission and commission upon the farmer has been overdone. Undoubtedly, he is not doing everything that he ought to do; but it is also unquestionably true that he has been trying to produce and sustain the economic fabric of the United States during the last six to ten years for twenty per cent less in the way of rewards than has been accorded other classes of our citizenry.

I, for one, marvel every time I think about the fact that our agricultural structure has been able to weather through the storms and tempests of this era in as good condition as we find it today.

Finally, if I may venture to speak for the farmer, he is not asking for sympathy or for alms. He wants a fair chance and a square deal. When he is accorded these, the business with which he is concerned will adjust itself upon a reasonably safe and fairly satisfactory economic basis, and the superstructure of industries which we have erected upon the prosperity of the farmer will then rest upon a more secure and firm foundation than it occupies today. I am therefore in favor of helping the farmer to function along sane and rational lines. I also believe in recognizing and giving him proper credit for the arduous and constant labor he and his family are performing for the benefit of society as a whole.

A New Dairying Periodical.

The "Southland Dairy Farmer," published at Jackson, Miss., by C. Desmond Graves, is edited by Craddock Goins, whose writings on dairying in the South are widely read. The periodical is a monthly and the November issue is Volume I, Number 1. Clara Bell Graves is its household editor and greets the readers with a hearty article: "Hello, Folks!" Mr. Goins follows with "Breaking Into Mississippi: the Dairy Queen Succeeds Rule of King Cotton." There are many other interesting and valuable contributions from different writers with items of news and views on dairying. It is a well-rounded publication for dairy farmers.

\$300,000 Medical Building Opened.

St. Petersburg, Fla.—The new medical arts building erected here at a cost of approximately \$300,000 by the Medical Arts Corporation, of which Dr. Leroy Wylie is president, has been completed and opened to the public. The structure is three stories and will be used exclusively by physicians and dentists. Ritchie & Wakeling are the architects and Stanley J. Greenwood general contractor, both of St. Petersburg.

DEVELOPING GEORGIA LIMESTONE AS SUBSTITUTE FOR ITALIAN TRAVERTINE.

Atlanta Interests to Start Quarrying Operations in Randolph County.

Columbus, Ga.—An extensive deposit of limestone said to polish equal to the finest grades of travertine imported from Italy has been discovered near Cuthbert, Randolph county, and will be developed by the Godfrey Marble and Tile Company of Atlanta.

Arrangements have been made for the construction of three miles of railroad to reach the deposit, and this will be completed in about 60 days, after which production will begin. For the time being the finishing will be done at the plant of the Godfrey Marble and Tile Company in Atlanta. The breakage and waste from quarrying operations will be converted into lime for agricultural and building purposes.

H. M. Godfrey, who discovered the deposit and is giving it personal attention, estimates that within a radius of 1000 yards a single deposit will yield 10,000 tons. The deposit comes in pink and cream monotone formations, with a quantity of phosphorus which adds to its beauty. Some of the limestone contains pieces of shell, but the bulk of it is an exact duplicate of the Roman travertine used in this country which shows no phosphorus formation.

Mr. Godfrey has estimated that he can develop and sell material from this deposit of travertine at a price no higher than Georgia or Tennessee marble. The deposit located in Randolph county is strong and durable, highly crystallized in formation, and with the price not prohibitive, it may become popular in building construction.

The property leased embraces an area of more than 3000 acres, and along with the travertine are numerous deposits of iron ore, bauxite and ochre. Stewart and Randolph, adjoining counties, and Dougherty county, in the immediate vicinity, are shown to contain large deposits of limestone, and Mr. Godfrey believes a great many of these contain travertine of the same quality as the large tract he is developing.

The discovery of the possibilities of this deposit resulted from the efforts of the Columbus Electric and Power Company and South Georgia Power Company, which supply hydro-electric power service to an area of 12,000 square miles in Southwest Georgia, to interest lime manufacturers in developing this particular tract, which was featured in national advertising. Among the people interested by this advertising was Mr. Godfrey, who looked the proposition over and sent samples to his Atlanta marble works to see what kind of a finished product would result. The beautiful samples he developed led him to close for the property and undertake this development as a source of building material that is becoming increasingly popular in this country.

Sells \$150,000 Bonds for \$500,000 Hospital.

The city of Cumberland, Md., which plans the erection of a \$500,000 memorial hospital, has made an initial sale of \$150,000 of 4½ per cent bonds for beginning construction. M. R. Hast, city clerk, advises that the bonds were purchased by Harris, Forbes & Co., New York, at 107.629.

As previously announced, the building will be four stories, of brick, steel and concrete, to accommodate more than 100 beds. It will be T-shaped, with a 200-foot service wing in the rear, and will be equipped with one service and two passenger elevators, X-ray rooms, internes' living quarters, private and semi-private rooms and other modern facilities. Zantlinger, Borie & Medary of Philadelphia, Pa., are the architects, with Dr. S. S. Goldwater of Mt. Sinai Hospital, New York, serving as consultant.

Plans Progressing for \$3,000,000 Building in Baltimore.

Preliminary plans for the new building to be erected by the Baltimore Trust Company, Waldo Newcomer, chairman of the board of directors, at Light and Redwood streets, Baltimore, are progressing satisfactorily. The structure will occupy a site of 112 by 195 feet and will be of the tower type, the main portion rising to a height of 16 stories and the tower to 24 stories. Cost of construction is estimated at \$3,000,000. Taylor & Fisher and Smith & May, both of Baltimore, are the architects. Herman F. Doeleman, also of Baltimore, is structural engineer.

Center of Production of Public-Utility Electric Output.

The center of production of electricity by public-utility power plants in the United States moved about 85 miles in a southwesterly direction in the 10-year period since 1917. In 1926 it was 55 miles west by south of Chicago, having moved about 20 miles in a southeasterly direction from its position in 1917, according to the Geological Survey.

The relatively small movement of the center of output since 1907 is an indication of the general increase in utilization of electricity in all parts of the country. During the period from 1907 to 1926 the output increased from 10.6 to 73.8 billion kilowatt-hours, or nearly 600 per cent in the 20-year period. The increase in population during the same period was only 34 per cent. The relative increase in total output is about the same as the relative increase in the per capita use of electricity, which in 1907 was 122 kilowatt-hours and in 1926 was 630 kilowatt-hours. The per capita consumption of electricity in Germany in 1926 was only 180 kilowatt-hours, or less than one-third of the per capita consumption in the United States.

Progress on Luling Farm Foundation Development.

Luling, Texas, December 5—[Special.]—Development of the model farm of the Luling Farm Foundation, established by Edgar R. Davis, wealthy oil operator, formerly of Brockton, Mass., who donated \$1,000,000 for the purpose, is making rapid progress, according to Hack Shelton, manager. The Foundation has spent approximately \$350,000 for land, farm equipment and livestock. The remainder of the \$1,000,000 has been invested in securities, the income to be used in carrying on agricultural experiments along scientific lines. The farm consists of 1223 acres of land with a three-mile front on the San Marcos River.

"Fully 50 per cent of our cultivated land is being planted in feed each year and all feed is fed to livestock right on the farm," said Mr. Shelton. "We have 50 acres in pecans and are preparing to plant 200 acres in all to nuts.

"We are putting in a 40-cow dairy and are using only high class registered Jersey cattle and the increase of this herd will be sold to the farmers of the adjacent territory at nominal prices.

"A 12,000-egg hatchery is being installed and a breeding flock of about 1000 birds will be maintained. The product of this flock will be furnished to the poultry people of the counties at cost prices.

"The Foundation is not to be run for profit to any individual and all above actual expense of conducting the business is to be returned to the endowment and used as a fund to support the institution. We are to co-operate with the farmers of the adjacent territory in every possible way with the purpose of bringing about better agricultural and livestock conditions. The sheep bought here have been selected to improve and introduce better animals into the flocks and onto the farms of the section for which the Foundation is being conducted."

Pittsburgh Business Men View the South.

TODAY'S LAND OF OPPORTUNITY FOR YOUNG MEN, DECLARE BANKERS AND MANUFACTURERS OF THE STEEL CITY, AFTER HAVING TOURED THE OHIO AND MISSISSIPPI VALLEYS—PROGRESS MADE REVELATION TO MANY.

By RICHARD W. EDMONDS.

"The Tonic Spirit of the South" might well have served as the caption of this article. "When I am feeling blue about business conditions, a trip down through that section is like a tonic to me," is what H. S. Wherrett said about his recent trip. "Down there the people are not yet hampered by business traditions. The country is new; the industrial development is all before them. They are not trying to hold on to what they have, as some sections of the North and East are. Their established industries aren't afraid of the competition, in the labor market or otherwise, of new industries coming in. There is plenty of room, great undeveloped territories. They have the natural resources on which to base countless new industries, and abundant power, hydro, coal, oil, gas or even lignite to drive the wheels. Their great development lies ahead of them. Some day the time may come when they, like the North and East, will be trying to hold on to the wealth they have amassed; but not yet, not for a long time. Now they are living in and for the future; they are building with tremendous energy and enthusiasm. That is the sort of spirit I mean when I say that when things look black up here a trip down there is always like a tonic to me."

Mr. Wherrett is vice-president of the Pittsburgh Plate Glass Company and the trip of which he spoke was a tour of the area that will be opened up to river shipping from Pittsburgh by the completion in 1927 of the canalization of the Ohio River.

Seventy-five of the business men of Pittsburgh made the trip, among them many of the most influential manufacturers and bankers of the city. They went to Louisville, St. Louis, Memphis, Houston, New Orleans, Birmingham and Cincinnati, covering 3500 miles, exclusive of numerous local excursions. There was just one object of the trip, and that was to study the territory that will be opened up to water shipments from Pittsburgh upon the completion of the Government's investment of \$100,000,000 in locks and dams to make the Ohio navigable the year round. Markets, that is the great thing. Markets must be reached. Pittsburgh is the center of an enormous traffic in bulky, low-grade freight. The shipping charges are a large part of the cost to the consumer. If shipping charges can be materially reduced, the final cost to the consumer likewise will be lowered considerably.

"In terms of tonnage alone," said Thomas A. Dunn, vice-president of the Chamber of Commerce and head of the Traffic Bureau, "Pittsburgh handles more than New York, Philadelphia, Boston and Liverpool combined. In 1926 we shipped 177,000,000 tons by rail and 35,000,000 tons by water, while the other four ports handled just under 200,000,000 tons. Of course, you must bear in mind now that I am speaking in terms of tons and not of value. We bring in limestone, coal and iron ore, and we ship out slag, iron and steel. Rail freight on these things is a formidable part of their total value. Furthermore, our shipments are increasing all the time, and the topography of this country around here, all built up as it is with city streets and houses, or with tremendous industrial plants, will make any great expansion of our rail facilities impossible. We have got to find other means of shipping, and our rivers are the answer. The Monongahela and the Allegheny meeting here from north and south, and the Ohio flowing west from their confluence, will carry tonnage without limit of our heavy, low-priced

freight, and do it at far less cost than the railroads, thus leaving to the latter the high-grade, less bulky and more profitable freight."

"What did you find on your trip?" I asked him.

"I'm coming to that," he replied. "But I want you to get clearly in mind the object in the minds of all of us. We have this shipping problem to handle, and with the solution of it so near, we wanted to see what preparations are being made down the river for terminals, warehouses and the like. River shipping—that was what we were all interested in—the facilities for handling it and the territory that would consume it." Then from Pittsburgh he jumped to Houston. "There's a town," he said, "that I would head for today if I were a young man with life all ahead of me. When I went there this time I hadn't been there for about two years. They have brought deep water right up to that town. The city paid half the cost, and it stood them \$25,000,000. This time I saw vessels from 12 or 15 foreign nations at Houston's wharves. We will ship clear to Houston by water, using that as a distributing center for the Southwest. With our cargoes going there, and foreign vessels unloading there to return, Houston might very well become an important transshipping point for our exports."

Robert Garland, vice-president of the Westinghouse Electric Company and president of the Chamber of Commerce, had not been South for a number of years. "The progress that has been made down there, wherever we went, was a revelation to me on this trip," he said. "Especially I was surprised at the excellence of the river terminals some of the cities are building or have built. Some of our great manufacturing here in Pittsburgh have built terminals for their own use that could scarcely be improved upon, but for municipal terminals that our smaller shippers can use, we are behind some of the Southern river ports. We have got to come ahead on that point."

Mr. Garland then pointed out one great advantage enjoyed by these large shippers, an advantage that must be shared with the consumers along the waterways. They operate their own fleets of towboats and barges; yet because they carry only their own goods, they are not common carriers and are, therefore, entirely independent of the rate regulations and other restrictions of the Interstate Commerce Commission. They ship in lots of half a dozen barges in a tow, or the equivalent of several freight trains, in one shipment. Naturally, they are able to effect great economies in cost of transportation. They will operate great distributing warehouses at ports along the rivers, serving from them the surrounding territories.

Discussing the cost of the improvements in the Ohio River's channel that makes such shipping possible, Mr. Garland pointed out that the value of this \$100,000,000 investment would be greatly increased if, by a system of storage reservoirs on the tributaries, the Arkansas River could be made navigable in seasons of low water as far west as Fort Smith and the Missouri as far north as North Dakota.

It must take a lot of nerve to build as rapidly as those people are building down there, thought F. J. Chesterman, president of the Bell Telephone Company of Pennsylvania, after his visit, which was cut short at Houston by the explosion in Pittsburgh. "To a conservative Northerner it is hard to see how they can go so fast and get away with it. And

yet they are making it pay. All of that Southern territory ought to be a great industrial region, I should think."

"It has the resources and it has the power," I said.

"Yes, and it has the labor, too. Don't forget that."

"I'm glad you like that country," I said as I left. "We think it's the greatest in the world."

"I do like it; indeed I do," he replied, "and I believe you are entirely right about it."

A. W. Robertson, president of the Philadelphia Company and chairman of the committee that arranged the trip, spoke not only for himself, but for his companions. Apparently the spirit of the Southern people had made a deeper impression on him than any material developments he saw. Mr. Robertson said:

"Our journey took us to a number of the cities that will be within reach by inland navigation from Pittsburgh and gave us an opportunity to see at first hand the progress which has been made in the development of the New South, of which we have heard so much. We found that to the hospitality for which the old South has been famous there has been added the spirit of a people who have seen a great vision of growth and development, and the energy and enthusiasm of a people who are making their vision a reality."

"The thoughtful man can conceive of nothing but substantial growth and development for the Southern States. Their land and growing season make them ideal for crops, and their mineral assets assure them an activity for basic industry. They are traversed by rivers and canals whose development makes for easier transportation of the products of their farms, mines and factories, while their great natural power resources are being developed by companies with the foresight to provide adequately for all future power demands."

"I predict that the South will play an increasing part in the economic life of our nation and I hope that between it and Pittsburgh will be created a friendship that will be to the benefit of all concerned."

With all of this George S. Davison heartily agreed. To Mr. Davison the spirit and the development of the South is an old story. Before becoming president of the Gulf Refining Company his activities as an engineer took him into many parts of the South. "It is a great and growing section," he said. "It has a future that makes it today's land of opportunity for young men."

Sub-Contracts on \$500,000 Hospital Annex.

The A. J. Krebs Company of Atlanta, Ga., general contractor for the erection of a \$500,000 annex for the Hillman Hospital at Birmingham, Ala., advises that it has awarded the following sub-contracts:

Cast stone—Loeb Stone Company, Memphis, Tenn.
Elevator fronts and cabs—W. S. Tyler Company, Cleveland, Ohio.
Elevators—Otis Elevator Company, New York.
Exterior masonry—Bush Building Company, Nashville, Tenn.
Glass and glazing—Binswanger Company, Memphis.
Hardware—Mid West Hardware Company, Chicago.
Interior partitions—Ibos & Clark, Birmingham.
Form work—Hugh J. Baker Form Company, Atlanta.
Lathing and plastering—D. W. Epperly Plastering Company, Birmingham.
Marble, tile, terrazzo and slate—Malone & Scott Tile and Marble Company, Memphis, Tenn.
Metal bucks and trim—Aetna Steel Products Corporation, Brooklyn, N. Y.
Metal cases and utility rooms—Art Metal Construction Company, Jamestown, N. Y.
Millwork—McPhillips Manufacturing Company, Mobile, Ala.
Ornamental iron—Birmingham Ornamental Iron Company.
Painting—William Wilson Corporation, Atlanta.
Plumbing, heating, wiring and ventilating—Alabama Supply Company, Birmingham.
Reinforcing steel—Connors Steel Company, Birmingham.
Roof and sheet metal—George F. Wheelock Company, Birmingham.
Steel windows—David Lupton's Sons Company, Philadelphia.
Structural steel—Birmingham branch of Virginia Bridge & Iron Company, Roanoke.
Weatherstripping—Chamberlin Metal Weather Strip Company, Birmingham.

Harry B. Wheelock of Birmingham is the architect for the annex and Percy W. Swern of Chicago consulting architect.

Growth of Electric Power—United States Ranks First in Electrical Equipment.

The amount of electrical power equipment in the manufacturing industry in the United States has nearly trebled within a decade, constituting in 1925 a total of 26,123,573 horsepower, or 73 per cent of the total primary power equipment in manufacturing, according to an analysis made by the National Industrial Conference Board, New York. This gives the United States first place among leading industrial countries, Germany being a close second, with industrial power equipment being 66 per cent electrified, according to 1925 data, while Great Britain lags considerably behind, only 48 per cent, or less than half of the power used by its industries being electric.

The degree of electrification in the different groups of industries, the board finds, varies greatly, being 100 per cent in the machinery manufacturing plants. The manufacture of transportation equipment, including air, land and water means of travel, also is almost completely electrified, 99.7 per cent of the power used being electric. The rubber industry is a close third with 94.2 per cent electric power equipment. The manufacture of musical instruments, railroad repair shops and metal products industries follow in order, ranging from 90.6 per cent to 83.1 per cent electric power. The degree of electrification of other important industries as measured by the percentage relation of the aggregate horsepower of electric motors to the total primary horsepower is as follows: Stone, clay and glass products, 80.6 per cent; leather and leather products, 78.6 per cent; tobacco manufactures, 75.2 per cent; iron and steel and their products, 71.7 per cent; textiles and their products, 67.5 per cent; food and kindred products, 66.1 per cent; chemical and allied products, 63.4 per cent; paper, printing and related industries, 62.2 per cent; lumber and allied products, 49.2 per cent.

Court Decision on Cotton Trading.

In a statement captioned "Cotton Future Trading Held Legal," Fenner & Beane, a well-known cotton firm of New Orleans and New York, say, in part:

"In holding that the Georgia law of 1906 prohibits bucketshops and bucketshop gambling transactions in cotton futures, but does not prohibit legitimate buying and selling of contracts for future delivery over the exchanges, according to their regular methods of doing business and in keeping with the Federal Cotton Future Trading Act, the Georgia Supreme Court has opened the way for the clearing up of a legislative controversy in several cotton growing States which for 20 years has disturbed the cotton industry no little."

"The case came to the Georgia Supreme Court from the lower court at Atlanta. B. L. Layton, Atlanta manager for Fenner & Beane, was there found guilty of violating the Georgia law of 1906. He had transmitted orders to buy cotton for future delivery on the New Orleans and New York Cotton Exchanges in keeping with the Federal Cotton Future Trading Act. He was convicted by the lower court. The Supreme Court of Georgia now holds that such transactions are legal and legitimate."

"In its broader aspect, the decision of the Georgia Supreme Court will undoubtedly cause the State legislatures in future to frame their laws relative to future trading more carefully by clearly drawing the line between legitimate future hedge trading and bucketshop gambling."

\$200,000 Contract for Parkersburg Water-Works.

Contract for the construction of a new water-works system for Parkersburg, W. Va., has been awarded to the Layne-Atlantic Company of Norfolk, Va., according to information from the superintendent of water-works. Improvements will include a maximum of 18 new turbine pump wells, with collection and booster systems, and the improvement of three wells in Riverside to be incorporated in the new system. The contract price is said to be about \$200,000.

Significant Convention of American Mining Congress.

By GEORGE GARNER.

Held appropriately, as it developed, on the eve of the convening of the National Congress, the thirtieth annual convention of the American Mining Congress, in Washington last week, proved to be one of the most significant gatherings in its record—significant through demonstration that science, through engineering and chemistry, now is regarded as an integral and practical factor in the industrial life of the United States. And that mining activities bear the same relationship to the national life as do other major industries was indicated by the nature of the numbers of the program.

So it was that "Mining, the Keystone of Industry," was the subject discussed by President William H. Lindsey of the American Mining Congress at the opening of the convention; so it was that Secretary Hoover took "Economic Importance of Mining to the Nation" as his topic, and so it was that the relations between the Government and the mining industry were discussed in several phases by Senator Tasker L. Oddie as a member of Congress, and Gilbert H. Montague of New York as an authority outside of Congress, and by former Representative Philip P. Campbell as a sort of connecting link between the legislative branch of the Government and the people.

Especially interesting was the session in view of Government inquisitiveness into the petroleum situation, but that subject was sidetracked as a factor of debate by representatives of both that industry and the executive branch of the Government, although Senator Oddie expressed aversion to Government control of oil production. On the other hand, the relations between the zinc industry and the Government were taken up; "Will Modification of the Sherman Law Solve Coal's Largest Problem?" was the topic of Walter Gordon Merritt, counsel for the Anthracite Operators' Conference, and hydro-power was discussed by Representative Lewis W. Douglas of Arizona.

In emphasis of the position assumed by mining in the forefront of American industry, Mr. Lindsey declared that "mining has been the keynote of progress of the human race," and interjected the information that 87 per cent of the mineral production of the United States is represented in the American Mining Congress. "Today there is no industry that is not based on mining," he added, and, "the welfare of other industries and occupations depends on mining."

"And as a result of a survey of Southern mineral resources conducted by the American Mining Congress," said Mr. Lindsey, "capital has been attracted to the South in large and growing volume."

Tariff measures which will assure continuous and profitable production of minerals will be supported by the American Mining Congress, he added, and he said that data was being assembled on the operation of mineral schedules under the present tariff law for the purpose of meeting any emergency which may develop. He added:

"The Government should confine its activities to doing those things for industry that industry cannot do for itself. A Government agency should not supplant those agencies of industries which are doing this work. The mining industry is working out its standardization and simplification problems and feels that Government interference will complicate, rather than expedite, progress."

First explaining that the Secretary of Commerce is especially enjoined to promote and foster the interests of the mining industry, Secretary Hoover said that mining ranked second only to agriculture in its contribution of the nation's raw materials, and cited the fact that its production runs to

nearly \$6,500,000,000 a year, "providing direct support to probably 10,000,000 of the people through employment to about 2,000,000 workers."

"But, the industry has a greater importance than even these figures indicate," added Mr. Hoover, "for, with agriculture, forestry and water power, it furnishes the raw materials upon which the whole work of our civilization rests. When the raw materials of our mines emerge from manufacture with the added expenditure of labor and capital upon them, they have a wholesale value of over \$15,000,000, and in this second stage of their application they give employment to another 2,000,000 workers and support to about 10,000,000 more of our people. A large portion of these manufactured commodities must filter through the retail trade and their total value, when delivered to the consumer, exceeds \$20,000,000,000. And from this distribution arises the support of many more millions of our people. It is estimated that the products of agriculture when they reach the consumer, with transportation, manufacturing and distribution costs added, have about the same value as the mineral industries—each of them thus contributing about one-quarter of our total national income."

Beyond declaring Federal control of oil production to be unconstitutional, Senator Tasker L. Oddie of Nevada, chairman of the Committee on Mines and Mining, sharply attacked the Budget Bureau for restricting appropriations for the Bureau of Mines and Geological Survey and urged additional yearly appropriation of \$500,000 for these bureaus on the ground that present allotments are "parsimonious" and "pitifully inadequate." Also, he said that American petroleum supplies must be handled in a businesslike and efficient manner, in order that ample production be maintained as long as the supply from oil wells lasts, and the vast oil shale and lignite deposits must be developed, and processes for their reduction be perfected so that the country may not lack its necessary supply of oil and gasoline in a possible interim that may exist between the time of exhaustion of the present supply from oil wells and the bringing in of the new supply from oil shale and lignite deposits. The public must be protected by an adequate supply of oil at all times at reasonable prices, and the present needs for national defense must be provided for and future needs anticipated, as he saw the situation.

"The oil industry must be protected," said Senator Oddie, "and be allowed to operate effectively and profitably. The industry consists of large and small operators, whose methods of operation are necessarily different, though both are essential to our economic and business structure. Federal control of oil production is unconstitutional."

Based on previous failures of Government control, in contrast with the success of private enterprises, Federal control of mineral resources was opposed by former Representative Campbell, who contended that the Government "is not fitted to manage or control the product of the mineral resources of the country."

"Experts in the Geological Survey and Bureau of Mines would not make good mine superintendents or even pit bosses," said Mr. Campbell. "Experts in the Bureau of Standards would have difficulty in laying out a tank farm and building tanks and pipe lines for petroleum," and he asserted that operation of industrial enterprises is out of their line. The election of a man as Governor of a State, Senator or even President, "does not endow him with that superhuman wisdom and ability that qualifies him to conduct

or control the intricate business that the people with pains, skill and ability have developed under private enterprises," as he put it, and added:

"The Government owns large areas of timber land, carrying millions of feet of lumber. It has or controls immense acreage of mineral lands, bearing all kinds of mineral. It has assumed jurisdiction and control over streams susceptible to developing enormous water power. Yet, it is said that millions of feet of timber ripen and waste every year on Government timber lands, and the Government has not discovered or developed producing mines of coal, gold, silver, lead or zinc from lands bearing these ores under its ownership or control. It owns or controls immense areas of land bearing oil and gas, but has not discovered or produced under its own initiative a single barrel of oil for the manifold uses for which oil is used by the Government.

"Millions of water horsepower run on aimlessly to sea, while the Government refuses to lease the power and is unable to develop it on its own account. When the Government operated railroads, express companies, telegraph and other great business agencies, there was such a gross lack of management as led to waste, extravagance and incompetency never known before or since in connection with any of the enterprises whose operation and control the Government undertook.

"The Government cannot operate or properly direct industrial or transportation enterprises. The successful operation and management of these enterprises is inspired by the hope of individual reward for individual effort. It was under this necessity that they have been successfully developed and managed, and it is through this inspiration that our natural resources have been discovered and developed, our business enterprises built up and our lines of transportation extended.

"There are other objections to the creation of more bureaus or commissions for the conduct and control of private enterprises. The people paid last year over \$10,500,000,000 for State, local and national Governments, and it wasn't worth it. Bureaus and commissions have taken over the Government. We have become a bureaucracy, with bureaus exercising control over every activity of the people in every walk of life. The bureaucrats are not elected or otherwise chosen or appointed by the people. Bureaus and commissions in many instances are a terror to the citizen. They exercise a control far beyond anything contemplated by the law that created them. This is the common experience of the average American, whether his business be great or small. The day should come, and, no doubt, will, when there will be a return to representative Government, and the people be free to conduct their own affairs under laws that are commonly understood to regulate the relations of men and communities to each other. The inauguration of such a day should be looked forward to with the hope of an early dawn, rather than that we should stand trembling as the evening shadows of another Federal bureau comes on."

Legislation to permit mining companies to operate at a reasonable profit under supervision of a Government commission was suggested, as a relief from present restrictions imposed by the Anti-Trust laws, by A. Scott Thompson of Miami, Okla., speaking particularly of the application of the Sherman Act to the zinc industry. On observation in the zinc district of Oklahoma, Kansas, and Missouri, Mr. Thompson said that the demand for zinc is not keeping pace with world production, which results in narrowing the margin between cost of production and selling price, and he declared that "without the tariff many domestic producers would be driven out of business." Then pointing out that most of the mining acreage in the Tri-State Zinc district, which is operated by 109 companies in 204 mines, is held by leases requiring continuous work, he said that the average cost of producing concentrates during the last four years has been \$44.30 per ton, while the average market price has been between \$45 and \$46.

"Few would advocate exemption of the zinc or other mining industry from the anti-trust laws without some other Government supervision or regulation," he said. "The Government should not, however, undertake to interfere with the business of mining in any sense. The zinc industry should be permitted to conduct its business free from prosecution in

all matters in which approval by the Government is first obtained. A Government commission could retain control over the immunity granted."

More and bigger consolidations in industries were predicted by Mr. Montague in an address on "Lawful Combinations in Industry," and these, he said, will be due to the desire of business to overcome falling prices and diminishing profits. Moreover, he believed, these will be encouraged "by the clarification of the Anti-Trust law by the Supreme Court and its sympathetic administrative interpretation by the Government. He then said:

"Business men are only just beginning to realize what a variety of new and effective methods for stabilizing business at home and for extending business abroad have become available in consequence of recent decisions and rulings by the Supreme Court, the Department of Justice and the Federal Trade Commission. More and bigger consolidations among producers; manufacturers and distributors, under proper conditions and with adequate legal safeguards, are permitted and, indeed, invited by the present attitude of the court and the Government. By avoiding unlawful acquisitions of capital stock and by taking care to leave outside enough competitors to assure effective outside competition, such consolidations can now be set up in many industries in entire conformity with the law and with the utmost advantage to the public interest.

"Falling prices and diminishing profits are always an incentive to consolidation. With the present clarification of the law, more and bigger consolidations may soon be expected in a number of industries that are now the worst sufferers from these conditions."

Renewed opposition to Government control over industrial standardization was expressed by Col. Warren R. Roberts, chairman of the coal mining branch of the Mining Congress' standardization division, who said that existing agencies in industries for carrying on standardization are adequate and that no change should be made in the methods of approving standards formulated by the industry as it would discourage their efforts and delay their work.

"There seems to be a constant and increasing tendency to transfer to the Federal Government all of the duties of our citizens, our cities and even of our States," said Colonel Roberts. "Much could be said on the subject of the baneful influence of over-centralization in our democratic form of Government. Volumes have been written against this harmful tendency. It will be wiser to leave this matter to the leaders of standardization in the various industries than to set up new agencies or to transfer this function to some Government agency."

Elimination of wasteful over-production and cut-throat price competition by co-operation between private developers of natural resources and regulation by the Government was advocated by Sidney J. Jennings, president of the United States Smelting, Refining and Mining Company and former president of the American Mining Congress.

"Public opinion seems to be reaffirming the conclusion that the development by private people of the bases of wealth produces the best results and promotes the greatest good," said Mr. Jennings. "The sale of products of natural resources, other than waterpower, is regulated by intense competitive effort to dispose of a superabundance of products. The sale of developed waterpower is more a matter of service than price, although it must be reasonable, so that those using developed waterpower can compete with those using power developed from other sources."

As viewed by participants in the convention, the sessions were unprecedentedly prolific in constructive suggestions, rather than in negative criticism. Of much the same nature as the addresses quoted were discussions of "The State of Industry," embraced in five-minute talks, and the bureau of mines hour, while discussions of a more technical nature were held on coal mine drainage, underground transportation in coal mines, mine timbering and kindred topics.

West Florida Power Company's New Plant.

By E. G. CONNELL, Charlotte, N. C.

The West Florida Power Company, a subsidiary of the General Engineering and Management Corporation of New York city, as a part of its extensive power development program in Florida is now constructing on the Ocklocknee River, near Jackson's Bluff, a hydro-electric plant that is destined to become an important factor in the industrial development of the western part of Florida. The plant is being designed and constructed under the supervision of Mees & Mees, Inc., engineers, of Charlotte, N. C., who originally conceived the possibilities of a plant being located at Jackson's Bluff, about 25 miles west of Tallahassee, designing the project and carrying it forward to the point of actual construction. Before construction work was started, however, the property in its entirety was acquired by the General Engineering and Management Corporation as a necessary and vital link in its rapidly growing system. Construction began in 1926.

This plant is unique in several respects. The Ocklocknee River is subject to wide variation in runoff during different parts of the year and from year to year; whereas, the demand for power from the plant will be relatively uniform, as a large part of the output is to be used by local manufacturers of fuller's earth products. In order to provide, as far as practicable, this uniformity of output, advantage is being taken of the relatively flat country above the Jackson's Bluff site to store vast quantities of water. A lake approximately 15 miles long and two miles wide will be formed when the waters of the river are impounded. In this manner, it is proposed to store, during periods of excess rainfall, a great volume of water which will be held and used during periods of light rainfall.

In carrying out this phase of the development, large timbering operations are now under way on the area to be flooded. The amount of marketable timber in the inundated area was so great as thoroughly to justify establishment of large saw mills on a commercial scale. The removal of the timber is, of course, necessitated from the practicable standpoint of plant operation; for, were it not removed, the trees would gradually die and float down the stream to the plant, where they would constitute a continuous menace to operation.

The maximum height of the dam will be 39 feet, and a dike on one side of the stream, consisting of an earth embankment 3500 feet long, has a Wakefield piling cutoff. The construction of this embankment involves the handling of approximately 350,000 cubic yards of earth. In order to place this vast quantity of earth, steam shovels, trains and trestles are being used, the trestles being employed in dumping the earth into position and they are buried in the permanent fill. The greater portion of the dam is in Gadsden county, while the power plant is in Leon county.

Numerous problems have had to be met and dealt with in the construction of the dam that are somewhat unusual, one of the most interesting being the foundations, which are all of soluble limestone. This limestone underlies practically all of Western Florida. It has, therefore, been necessary to drive piling to a sufficient depth to prevent possible percolation through underground channels.

In order to handle excess flood water above the ability of the Ocklocknee Lake, to store and conserve this water for future use, certain portions of the dam have been fitted with tainter gates of a type that may be raised when this becomes necessary to permit the discharge of this flood water, without the necessity of it passing through the water-wheels. It is anticipated that these will be used only at times of extreme runoff, as considerations of economy make it necessary that

all flood water be trapped and stored in so far as practicable. There will be seven of these gates for flood control, each being 16 by 25 feet.

The output of this plant is being delivered to the extensive transmission system of the Florida Power Corporation, the construction of which is now being rapidly completed. The system connects with Bainbridge, Valdosta and Waycross and thence by a 100,000-volt trunk line to the company's large steam plant at Inglis, Fla. By means of this connection consumers of electric power in the Tallahassee district always will be assured of continuous power for their requirements, inasmuch as the Inglis steam plant will be continuously in service and will be able to supply the load, irrespective of whether streamflow conditions in the Ocklocknee River are good or bad.

The Jackson's Bluff plant is now being developed with three units—two of 4000 kva and one of 3000 kva, the generators having been purchased from the Westinghouse Electric and Manufacturing Company, for delivery some time during 1928. The waterwheels are capable of driving the generators to their full rated capacity and have been purchased from the Newport News Shipbuilding and Dry Dock Company and are for delivery concurrent with the generators.

The general construction is being done by the Hardaway Contracting Company of Columbus, Ga. It is anticipated that the work will not be completed until 1929.

Appalachian Hardwood Club Carrying Forward Constructive Program.

At the last monthly meeting, in Cincinnati, of the Appalachian Hardwood Club the committee reported that approximately 75 per cent of the membership production was pledged to the support of a fund for the promotion of the sale of Appalachian hardwoods. In connection with this campaign an advertising committee is to be appointed by President C. W. Boyd of Tazewell, Va., who will at once investigate the best methods for the expenditure of this fund in promoting the sale of Southern hardwood lumber.

At the meeting L. R. Putnam of the Southern Pine Association stressed the necessity for trade and grade marking of all kinds of lumber. His address was regarded as especially helpful, as the club has adopted a trade mark and mill number for branding the product of member mills.

J. H. Townshend, executive secretary of the Hardwood Manufacturers' Institute, gave a short talk on the progress the institute is making in its campaign for the "Renaissance of Oak."

The club has under consideration the establishment of regional yards through which their lumber may be sold and distributed. The committee appointed to ascertain the best method of selling Appalachian hardwoods had several plans under consideration and asked for more time in which to get the plans in definite shape. It is stated that they will report at the next regular meeting to be held some time in January.

\$341,000 Contract for Texas Courthouse.

Stinnett, Texas.—General contract for the erection of the new courthouse here has been awarded by the Hutchinson County Commissioners Court to C. S. Lambie & Co. of Amarillo, Texas, on a bid of \$341,888. The contract also includes heating, plumbing and electrical work. It is anticipated that work on the building will start at once, the structure to be three stories with full basement, with a jail on the fourth floor. Provision will be made for two district courtrooms. W. C. Townes of Amarillo is the architect.

Further Letters of Comment and Appreciation From New England.

Henry Trumbull, Plainville, Conn.:

"I am pleased to acknowledge your letter of November 12. I also want to say I appreciate the sentiment expressed at a time when the northern portion of New England is in a very low mental State, owing to the flood losses, and, of course, that section of New England has been none too prosperous for some time prior to the flood. The southern section of New England is in an entirely different situation from the northern tier of States; Connecticut, especially, has been favored with good business for a number of years and we look forward not only to a bright future, but an expansion program that will prove equal to the rest of the country averages.

"There is just one thing in your letter that I cannot fully agree with, and that is the paragraph referring to Governmental control of rivers and harbors, which you refer to as follows:

"In some way the National Government, which controls the rivers and harbors of the country, must, it seems to me, take a broad gauge empire-building view of the whole situation and prepare a plan broad enough for the entire country to control the rivers in times of floods, etc."

"While such a program may be advisable for the lower Mississippi River district, it would meet with decided disapproval throughout this section. The prevailing feeling here, if I am able to interpret the public mind at the present time, is adverse to any further Government control of waterways, or, in fact, any natural sources that can better be handled by the State or local authorities and in a great many cases where it enters the commercial field be directed by private business.

"There are ample funds in New England to rehabilitate the destroyed areas along the Connecticut River, and I believe proper steps will be taken to provide protection from a repetition of trouble of this nature in the near future. In fact, I feel the local community in each district where the Connecticut or other rivers are liable to heavy overflow is already started and will be amply provided for."

Wm. B. C. Stickney, President, National White River Bank, Bethel, Vt.:

"I thank you for your very kind and sympathetic letter. It is an inspiration, breathing as it does the spirit of Maryland and Vermont, of human feeling, resolute effort and undaunted courage, the spirit of a nation indestructible in the Union of the whole, indestructible in the inviolable integrity of its members."

Chas. Ault, President-Treasurer, Ault-Williamson Shoe Company, Auburn, Me.:

"The thoughtfulness of your letter and the sentiments you expressed are indeed appreciated. As you know, the State of Maine was not affected by the recent flood disaster of New Hampshire and Vermont and West Massachusetts. No doubt, the storage reservoirs on our rivers saved the situation for many communities in Maine.

"Last week we attended the annual meeting of the New England conference at Springfield, at which Mr. Hoover reported as to conditions in Vermont. Out of this meeting will, no doubt, come a rehabilitation program which will not only be helpful at present, but mean much to the future progress and development of Vermont."

Josephine F. Murphy, Executive Secretary, the New Haven Real Estate Board, New Haven, Conn.:

"Your kind letter has been received by the New Haven Real Estate Board with a great deal of pleasure, as it brings to our minds that New England is not a lone section, but is one of many parts of the United States, and that there are residents of other sections that have us in mind in case of disaster in our portion of the country."

J. Ben Hart, Secretary, New Hampshire Hotel Association, Manchester, N. H.:

"I will lay your letter before the executive committee of

the New Hampshire Hotel Association at its next meeting, and I know they will join with me in expressions of gratitude for the cordial good-will you have shown.

"In reference to flood control in Mississippi and other points, I believe that the recent disaster has no parallel and that no means can be devised for this special community, or more especially in Vermont, where the greatest damage was done, on account of the topography of the country. The fact is that about two weeks' rain fell in four hours, and as the country is very mountainous and hilly, there does not seem to be any possible way in which the flood could be controlled. However, I am of the personal opinion that the government should use the utmost effort to rectify and control all such impending disasters wherever possible and we have already voted and sent a resolution to the United States Government to this effect."

William S. Rossiter, Chairman, New Hampshire Council, Concord:

"I am indebted for your communication of November 12, which I assume has gone also to other members of the New England Council, expressing deep sympathy with New England, and especially the north country, in its time of trouble. I am sure we all appreciate your cordial comment and the keen appreciation you express of New England energy and enterprise.

"With pretty wide knowledge of the subject, I am convinced that New England is not going backwards, but that a keener and more definite realization of the problems which come to industrial old age is becoming apparent in various parts of our six States. I do not think the country, generally, realizes that communities are subject to exactly the same phenomena that individuals are in the matter of change and decrease in initiative resulting from earlier achievement. Obviously the individual with an excellent inheritance and substantial and comfortable living conditions is not impelled by the sense of necessity which comes to individuals in smaller communities. We are beginning to realize the necessity for approaching our problems from the angle of being the oldest industrial area in the country, and, therefore, subject to different mental and economic conditions than other industrial areas now in their youth. I am sure, however, that the New England blood, resourcefulness and energy—which is only another way of saying the same old stock which exists in the South and to a considerable degree in the West—will rise to the conditions that confront the six-State communities and overcome their difficulties. Personally, I do not have any fear as to that, but I do view with concern the decreasing rural population in our north country, which can, of course, retard or gravely affect increasing prosperity in the industrial areas. Even that, like all other matters in the development of our nation, can be overcome with time and effort and thought."

S. L. Willson, President, American Writing Paper Company, Holyoke, Mass.:

"Your letter commenting on the conditions in this section due to the recent floods is greatly appreciated. That people so far removed should take sufficient interest to write such a letter is somewhat unusual, and, therefore, all the more appreciated. Our company suffered, like many others, but not to any great extent, but in some sections the losses of property and life were extensive."

E. W. Porter, Secretary, Chamber of Commerce, Concord, N. H.:

"We very much appreciate your thoughtfulness, as well as your kind sentiments relative to the erroneous impression that New England is losing its industries.

"The people of New Hampshire and Vermont are showing their usual hardihood in bearing up under their losses, and with the usual helpfulness which is given by the Red Cross and the National Government, coupled with the natural ability to overcome hardships, we believe the situation will be rapidly improved and that a return to normalcy will not be delayed more than twelve months."

Henry C. Jackson, Pawtucket, Secretary, Rhode Island Bankers Association:

"Although Rhode Island suffered comparatively little, we can not help but feel that what affects one or more of the New England States affects us. And because we in Rhode Island feel that way toward our New England brothers, we can appreciate the sympathy of the people of the South for those afflicted in New England's disaster.

"After all, the States are only political subdivisions, while

the people of this great country are one in their relationship and ideals. Disasters such as came to the Mississippi Valley and more recently to New England accentuate the closeness of our relations and our dependence on each other. It is to be hoped that this year's experiences will bring to the National Government more forcefully than ever its sense of duty and hasten action which will minimize future losses of the kind."

Robert J. Fuller, Lancaster Civic and Trade Association, Lancaster, N. H.:

"Your splendid expression of sympathy is most thoroughly appreciated. It was the good fortune of Lancaster to be just on the border-line of actual disaster, although there was some road and bridge damage. It was our privilege to make contribution, both of money and of service, to our neighboring State and to our neighboring towns. It is probable that there still remains some of the spirit of the pioneer among those of us who have been permitted to stay or return to New England.

"You are quite right in believing that the natural resources of a country, which include the rivers, should be cared for by the Central Government at Washington. It is probable that such a centralizing effort would bring about conditions to decrease the number of floods and would also assist in equalizing the distribution of the various natural resources which are scattered throughout the nation.

"The personal touch of sentiment which characterized the last paragraph in your letter is but another evidence of the beautiful spirit which has prevailed in the South during its entire history. The people of New England whom I know extend to you and those you represent their thanks and we can assure you that even though temporarily handicapped, New England will go forward with the same undaunted courage which has always characterized her activities."

North Carolina to Take Its Own Census of Manufactures.

Raleigh, N. C., December 5.—[Special.]—North Carolina, as a result of a special arrangement with the United States Bureau of the Census, will take its own biennial census of manufactures for 1927 in co-operation with the Federal department. Announcement of this agreement is made by Wade H. Phillips, director of the State Department of Conservation and Development, which will undertake the census through its newly formed division of commerce and industry, headed by Park Mathewson, statistician.

The Tar Heel State is the second to be accorded this privilege and the first in the South, Massachusetts being the only one to precede North Carolina.

Under the agreement the State officials bind themselves to be governed by the rules of the Department of Commerce, which require certain census information to be kept confidential, and all employees who engage in the work will take a Federal oath to observe these rules. One or more experts from the United States department will be sent to Raleigh soon after the first of the year to assist in classifying and tabulating the schedules. Mr. Mathewson, who will have direct supervision over the census taking, will serve in this capacity as a special agent of the Department of Commerce.

The arrangement will entitle the State Department to the use of the franking privilege for the census work, and will be an economy to both agencies by preventing duplication of efforts. It will also give the State an opportunity to use information from the census without waiting for its publication.

Completing Water and Power Plant Addition.

Amory, Miss.—Construction is nearing completion on a \$50,000 addition to the Amory power and water plant, for which funds were voted by the city last spring. The new addition adjoins the old building and is of brick construction on a concrete foundation. W. A. Stockton of Amory is the contractor.

A Statement on Mexico From the Mexican Embassy.

The Mexican Embassy has issued the following statement from Washington:

"The Mexican Embassy has been following with increasing interest and curiosity the daily installments of the story referring to Mexico which the Washington Herald and associated Hearst newspapers began to publish two weeks ago and which is the present outburst of periodical romantic international intrigue for which those papers seem to have so much fondness and which usually are worked on Mexico and another world power.

"The respectability of the papers in question and the documents printed to sustain these astounding international activities of Mexico, have led the Mexican Embassy to refrain from commenting on this story after the statements made both by itself and by the Mexican Foreign Office immediately after the beginning of their publication, statements by which the authenticity of these documents was fully and categorically denied.

"As yesterday's installment, purporting that the Mexican Government entered into a secret treaty with certain Nicaraguan politicians seems to have led some ingenuous persons to give credit to these forgeries and to collaborate with the Washington Herald and associated Hearst newspapers in their endeavor, the Mexican Embassy deems it due to the sound judgment and fairness of the people of the United States, who are being so grossly misinformed, to make the following final and categorical statement in the matter:

"The Mexican Government knew of the existence of the forged documents that are now being used, long before their publication began;

"The Mexican Government was advised that said documents were going to be used in the way they are being used now; they were offered for sale to the Mexican Government, but the Government refused to be blackmailed;

"Mexico and the Mexican Government have not and have never had any colonizing, material nor territorial interests in Nicaragua;

"The Mexican Government has not and never has had any interests in the proposed construction by the United States of a transoceanic canal in Nicaragua;

"The Mexican Government has no secret treaty in existence with any country.

"While the absurdity of an international compact of the nature of the one purporting to have been entered into between the Mexican Government and certain Nicaraguan politicians is self-obvious, to show to the layman the grossness of the forgery of the supposed documents printed yesterday, be it sufficient to quote from the Washington Herald and associated Hearst newspapers the very first words of the forged document, which follow: 'To the Citizen President of the Chamber of Deputies,' and to add that in Mexico, exactly as in the United States, now as in the past, the treaty ratifying power is exclusively vested on the Senate and that the Chamber of Deputies, its President included, have nothing to do with it."

Power Company to Issue \$40,000,000 Bonds.

Montgomery, Ala.—The Alabama Public Service Commission has approved a petition of the Alabama Power Company, Birmingham; the Gulf Electric Company, Mobile, and the Houston Power Company, Newton, to issue \$40,000,000 of 5 per cent bonds in connection with the consolidation of these three companies, as recently planned, under the name of the Alabama Power Company. It is stated that a portion of the funds derived from the sale of the bonds will be used to refund \$21,000,000 of 6 per cent bonds outstanding, while other outstanding securities will also be retired and all obligations for construction up to December 31 will be paid. About \$3,000,000 will be provided for future construction, it is estimated.

Operations of Small Industrial and Banking Enterprises Make Huge Total.

While the growth of large scale business has been most notable in manufacturing, nearly three-fourths of all manufacturing plants in 1923, according to the National Industrial Conference Board, employed only 20 wage-earners or less each, and about two-thirds of all plants produced goods not exceeding \$100,000 in value each during the year. The dominant part played by large scale production, however, can be appraised by the fact that, on basis of 1925 data, it takes only about one-third in number of all manufacturing plants to turn out nine-tenths, in value, of all products, and that this one-third of all plants employs nearly nine-tenths of all wage-earners in the industry. While thus a factory employing 1000 wage-earners may be more important than 100 employing 10 workers each, significance is attached by the Conference Board to the fact that the large and the small concerns can and do exist side by side and in a highly competitive market.

In trade smaller units not only predominate but also handle the bulk of the business, the board finds. In spite of the rapid growth of chain stores, department stores and mail-order houses, these groups combined are reported to be handling only about 30 per cent of the total retail business. In banking likewise, the smaller units by far prevail. In June, 1926, there were 28,146 commercial and savings banks in the United States with aggregate capital and surplus resources of \$6,745,300,000, or an average of less than a quarter of a million dollars each. Capital and surplus resources of National banks averaged \$327,000, of State banks, about \$180,000. While there are to be found banks with immense resources in the few financial centers, there are also thousands of banks with resources much below the average, each serving a comparatively small number of people of relatively small needs and means. Banks of all classes in 1920 numbered 30,139, serving an adult population of about 62,518,900, or 2000 adults to every bank.

While public utility companies in their very nature represent large capital investment, steam railroads, the largest type of such enterprises, average only \$5,250,000 capital, electric railroads only little more than \$750,000, gas companies about \$1,500,000 and holding companies average a little more than \$2,500,000 capital. As the capital in many cases exceeds these averages a great deal, so there are many more with considerably less than the average capital.

Taking manufacturing, mining and trade combined, the average number employed per concern is estimated by the Conference Board at 10 persons, the average in manufacturing being 44.7, in the wholesale trade from 14 to 15 and in retail establishments from 5 to 6. In addition to the distinct groups of manufacturing and trading concerns, there is a multitude of small enterprises of mixed functions, classified in the census as "hand and neighborhood industries," conducted by the owner and one or two helpers.

Texas Citrus Industry Expands.

"With the percentage of citrus trees planted in the Laredo-Winter Garden sections of South Texas virtually three times heavier to oranges than grapefruit, the development of a commercial 'orange belt' for Texas is apparent," according to a report by the Texas State Department of Agriculture. "It is estimated approximately 111,000 citrus trees are planted in the area represented by the communities listed.

"The great majority of these plantings are well under the four-year stage of commercial bearing and the Winter Garden-Pearsall-Encinal acreages are virtually settings of the past year. At Laredo, where the largest individual orchard of the State is located, it is doubtful if 800 trees are in bearing

at present, but the 1928-1929 season will show in the neighborhood of 6000 trees offering tonnage to consuming markets. Experiments are already being conducted in this section to test the value of ethylene gas in the coloring of the rind, and are reported to date as very satisfactory. Similar experiments where major citrus production of Texas is located and a preponderance of grapefruit to other citrus is noted.

"If plans at present under contemplation materialize, next season will find citrus acreage in the Winter Garden section doubled and approximately 5000 more trees set in the Laredo territory proper."

\$1,250,000 Office Building Sub-Contracts Let.

A number of sub-contracts have been awarded on the \$1,250,000 office building under construction at Wichita Falls, Texas, for W. B. Hamilton of the Hamilton-Martin Investment Company of that city, according to Jim Harrison of Wichita Falls, general contractor for the building. These include the following:

Common Brick—Gainesville Brick Company, Gainesville, Texas.
Cut Stone—Indiana Limestone Company, Bedford, Ind.
Elevators—Dallas office of Otis Elevator Company, New York.
Elevator Doors—Southern Ornamental Iron Works, Dallas.
Face Brick—Acme Brick Company, Fort Worth, Texas.
Fans and Fixtures—Southwest General Electric Company, Dallas.
Glass and Glazing—Southwestern Glass and Paint Company, Wichita Falls.
Hardware—Bailey-Moline Company, Wichita Falls.
Lathing and Plastering—Williamson & Greer, Dallas.
Marble—Vermont Marble Company, Dallas.
Masonry—C. L. Shaw, Dallas.
Millwork—Stevens Sash and Door Company, San Antonio, and Ingram & Co., Dallas.
Ornamental Iron—Wichita Wire and Iron Company, Wichita Falls.
Painting—J. Walter Rogers, Fort Worth.
Plumbing and Heating—The Hamilton Company, Dallas.
Roof Deck—Holorib, Inc., Cleveland, Ohio.
Roofing—Rogers Asbestos Company, Dallas.
Roofing and Sheet Metal—Lydick Roofing Company, Wichita Falls.
Signals and Pneumatics—Graham and Morton Company, Chicago, Ill., and New York.
Stedman Rubber Flooring—Southwestern Flooring and Sales Company, Dallas.
Steel—Concrete Engineering Company, Dallas.
Steel Casements—David Lupton's Sons Company, Philadelphia, Pa.
Steel Lumber—Truscon Steel Company, Youngstown, Ohio.
Structural Steel—Mosher Steel and Machinery Company, Dallas.
Terra Cotta—Atlanta Terra Cotta Company, Atlanta, Ga.
Tile—McBee Tile and Mantle Company, Wichita Falls.
Wiring—J. M. Johnson Company, Dallas.

As previously announced, the building will be 13 stories, of concrete, brick and stone, and will contain about 300 offices. Bryan & Sharp of Dallas are the architects.

\$1,000,000 State Fund to Advertise Maryland.

For the purpose of securing a fund of \$1,000,000 to advertise the social, commercial, industrial, educational and other advantages of the State, as well as its natural beauties, the State Advertising Commission, of which E. Lester Muller of Baltimore is president, plans to recommend to the next Maryland Legislature an adequate appropriation. Details for the expenditure of the money have not been worked out, but if the fund is provided, it will probably be expended over a period of five years, according to tentative plans. An intensive study of the problem will be made by the commission within the next several months.

In a statement to a representative of the MANUFACTURERS RECORD, Mr. Muller, who is also president of the Advertising Club of Baltimore, stressed the need of educating the youth of the State to the many advantages Maryland offers for the investment of time and money in the development of the State's resources, and in fostering a spirit of civic patriotism in the State and its achievements. He suggests that the public schools may profitably devote a short period each week for instruction along this line.

Asphalt Conference at Atlanta.

EMPHASIS PLACED ON MAKING BEST USE OF PRESENT ROAD SYSTEM.

The sixth annual asphalt paving conference was held at the Biltmore Hotel, Atlanta, Ga., November 28 to December 2. Over 500 delegates were in attendance from various sections of the United States and Canada. The conference was held under the auspices of the Asphalt Association and the Association of Asphalt Paving Technologists.

J. S. Helm, president of the Asphalt Association delivered the opening address. He stated that these conferences were the logical outcome of the prevailing spirit of specialization, that road building was no longer a mere question of locating a road to avoid bad grades, putting in suitable drainage, bridging streams or spreading gravel, because "today there is a very highly developed technology involving extensive research, exact application and a consideration of the effect of climate, traffic, soil conditions and other factors, in designing and building modern pavements. Within the past two years asphalt technology has received tremendous impetus through the formation of the Association of Asphalt Paving Technologists, an organization whose motives are wholly unselfish and whose personnel embraces some of the finest technical minds in this country.

"Asphalt is not a creation of the synthetic chemist nor yet a by-product, but is a natural material invariably originating in petroleum and held in solution by it, no matter where or in what form it is found, and it is a fact that today 94 per cent of America's asphalt requirements are obtained from the great oil refineries. Asphalt is a material which enters into the manufacture of more than two-thirds of the entire roofing requirements of America; a material which enters into a larger yardage of pavements than other binding material; a product which is practically necessary not only in asphalt pavements but in almost every other form of pavement, and finally, it is a product which is the one supreme salvaging medium to which we must look for saving our two to three billion dollar investment in macadam and gravel roads, through the application of a smooth, durable, dustless, waterproof wearing course. These facts are mentioned, not as a propagandist, but to bring home the fact that here is a material and a technology which are intimately related to the great question of obtaining more good roads and good streets, bettering those that we have, and conserving our present vast investment.

"We are a rich nation," continued Mr. Helm, "but since the time man first stepped foot on the American continent we have been wasteful in an appalling degree. We cut down our forests ruthlessly; we wore out our farm lands without any regard to conservation; we are prodigal with our petroleum supplies, and now that we are spending literally billions of dollars in building highways, it is to my mind a very justifiable warning to save our pavements and not go on forever building roads and tearing them up to build new ones just because we have the money to do it.

"I believe that every dollar wisely expended for good roads is an investment and not an expense, but I can well understand the concern of many of our students of governmental science at the rapidly mounting tax burden incident to the operation of State, county and municipal governments. Much of this huge tax burden is directly attributable to the building of roads and streets, and if we can conserve that investment so that it is comparable with the outlay of a private citizen for the building of houses, we merely transfer our funds from private investments into public investments and we have really lost nothing. If, on the other hand, these huge outlays are to be repeated year after year by substituting one pavement for another, then we are directly headed for a financial catastrophe when the load of taxes grows too heavy

to be borne. I cannot emphasize too strongly the fact that rich as we are we cannot afford to waste any of our investment in streets and highways. It is vitally necessary to salvage wherever this can be done.

"There is some justice to the contention of many of our great railroad executives, that the bulk of our highway expenditures is being directed into the building of great costly parallel trunk lines, costing as much or more per mile as the railroads themselves, and actually competing with them for passenger and freight traffic, while too little attention is being paid to the lateral roads which run from out in the farm communities direct to the railroad station and which must be used by the great body of farmers in bringing their products to the shipping point. It is true that these secondary and radial roads do not require costly improvement, but they should get a larger share of the highway program than they now receive."

The roadway situation of Georgia was presented by the Honorable J. G. Hardman, Governor of the State. "A Survey of the Surface Treatment Field With Particular Reference to Asphalt Material," was the topic of C. N. Conner, chairman of the Low Cost Improved Roads Committee, Highway Research Board, National Research Council, Washington, D. C. Mr. Conner pointed out that not until after 1920 was there any appreciable mileage of low cost improved roads and that with improved methods of maintenance, reconstruction, betterments and new construction, highway engineers have extended road service to many rural sections. "The results of the efforts of these engineers," Mr. Conner said, "have been effective, but the work has not kept pace with the ever mounting motor vehicle registration."

According to Pyke Johnson there are 22,000,000 motor vehicles in use in the United States, 87 per cent passenger cars, 12.6 per cent trucks and .4 per cent buses. "The task for the road engineer is to give them highways to roll over. Our total road mileage is about 3,000,000, of which 85 per cent is hard surfaced, 10 per cent is a low type surfacing, approximately 4 per cent is an intermediate type and less than 2 per cent are high type surfaces. These figures indicate that a high percentage of our roads will need some type of surfacing or surface treatment within the next few years, if the now isolated sections are to have service."

Other topics and addresses covered various technical phases of paving, including equipment, concrete mixtures, grades of sand, administrative problems of highway construction, maintenance requirements, educational advancement and a number of allied subjects. Athletic entertainment for the delegates included an exhibition golf match between Watts Gunn and Robert ("Bobby") T. Jones, Jr., and the football game between the University of Georgia and the Georgia School of Technology.

\$530,000 Bid to Erect Women's Memorial Building.

Information from the Office of Public Buildings and Parks, Col. U. S. Grant, 3d, director, Washington, D. C., discloses that the Charles H. Tompkins Company, Washington, has submitted the lowest bid at approximately \$530,000 for the erection of the proposed building in that city to commemorate the services and sacrifices of women of the United States and its insular possessions in the World War. The structure will be 120 by 60 feet, 60 feet high, with a steel frame and marble exterior, supported by a concrete pile foundation. It will have a tile roof and will be equipped with a hot-water heating plant, automatic electric elevator, auditorium, with stage and other facilities. Trowbridge & Livingston of New York are the architects.

Fiscal Year Ended July, One of Record-Breaking Prosperity, Says Hoover.

The nation's prosperity during the fiscal year ended July 1, 1927, broke all previous records, says Herbert Hoover, Secretary of Commerce, in his annual report, issued last week. This estimate seems to be based upon unequaled volumes of production, consumption and exports. The only dark spots in the rose-tinted landscape he found to have been the break in the price of cotton with its consequent depression on the purchasing power of Southern agricultural communities, a measure of continued depression in Midwest agriculture and in the coal and textile industries. The first two of these, however, he found to have improved since last July.

Turning to industry, he finds little unemployment, with wages higher than anywhere else in the world, or than at any other time in history. One of the most powerful factors in maintaining this level he considered to have been the \$7,000,000,000 of new construction started. Measured in terms of volume, he said, the year's building exceeded that of any year of the highly active war period.

A general stabilization of the industry he considered apparent. "As a consequence," he found, "building trades workers have enjoyed more stable employment and at the same time the costs of construction to the public have undoubtedly been lower than would otherwise have been possible."

Transportation, that indispensable servant of both agriculture and industry, has shown notable increase in facilities, he declared. "This gain in traffic," said Mr. Hoover, "was accomplished with an insignificant addition to the number of employees, a fact indicating the continued advance in efficiency of the railways, which has been going on since the close of the war." This improvement in railway service, he pointed out, has had a most favorable effect upon the entire economic structure.

New \$500,000 Building for Chattanooga.

Chattanooga, Tenn.—The construction of a new bank and office building here, estimated to cost about \$500,000, has been announced by the Hamilton Trust and Savings Bank, T. R. Preston, president. The new building will be located at Main and Market streets, having a frontage of 61 feet on the latter and extending about 110 feet on Main. It will be from five to eight stories high.

A Survey of Eustis, Fla.

The Chamber of Commerce of Eustis, Fla., has prepared a statistical survey of the city which will contain the names of business firms and companies and descriptions of their various enterprises, tables showing water analysis, rainfall and other weather figures and a large amount of general data pertinent and important. Attention is especially directed to the healthfulness of the climate; it is said that one there seldom experiences a cold and that diseases resulting from exposure are not known; neither is there any malaria. The land is naturally well drained and there are few annoying insects. Nevertheless, to insure preservation of this high reputation it is remarked that "Measures in conformity with the best Federal and State health practices are a part of the standard life of the community." There are 1296 homes. No industrial survey of the city has been attempted, but special investigations are made by the Chamber of Commerce upon request. It is believed that ample local capital is available to aid in developing properly undertaken enterprises. Very little unskilled labor is employed in Eustis, and it is remarked that skilled labor is performed largely by high-grade, intel-

ligent, home-owning men and women. Labor troubles are unknown. Railroad facilities are provided by both the Atlantic Coast Line and the Seaboard Air Line. The survey is too comprehensive to be described in detail but it will be welcomed by everyone interested in its subject.

\$1,000,000 Refractories Plant for Baltimore—To Occupy 30-Acre Site at Curtis Bay.

The new \$1,000,000 plant to be erected in Baltimore by the Harbison-Walker Refractories Company of Pittsburgh, Pa., will be located on a site which the company has acquired at Curtis Bay, according to an announcement by H. Findlay French, director of the Industrial Bureau of the Baltimore Association of Commerce. Construction is expected to begin as soon as detailed plans are completed and the plant ready for operation by the latter part of next year. It will be of modern construction embodying the latest ideas of European plants, combined with results worked out by the technical staff of the company. Burning will be done in two large continuous kilns of the Dressler type, said to be a departure from the method of burning in this country. The plant will use gas for fuel.

A site of 30 acres has been secured for the location of the industry, which will produce magnesite, chrome brick and kindred products. It is estimated that approximately 200,000 tons of magnesite and chrome ore will be imported through the local port annually. Negotiations for the site were conducted by William Martien & Co. and Julius Mintz, both of Baltimore.

Beaumont Exports Its First Cotton.

Direct export of cotton from Beaumont, Texas, to Europe has become an accomplished fact. The "first bale" has been followed by a succession of shipments and a regular and increasing flow of cotton exports over the municipal docks is



OFFICIALS OF LINES OPERATING UNITED STATES SHIPPING BOARD STEAMERS IN THE GULF AT THE CELEBRATION OF BEAUMONT'S FIRST EXPORT OF COTTON ABROAD.

Left to Right—J. M. Lykes, President Lykes Bros., Ripley S. S. Co., Inc., Houston; C. S. Nye, assistant director Fleet Corporation, Galveston; P. E. McKenna, Jr., vice-president and general manager Texas Oceanic Steamship Co., Inc., Galveston; Captain William Lovgren, master of S. S. West Cohas; C. B. Fox, manager Texas Oceanic Steamship Co., Inc., Houston; Captain N. S. Storter, manager Sabine District joint offices Texas Oceanic Steamship Co., Inc., and Lykes Bros.-Ripley Steamship Co., Inc.

assured by Biron & Co., Inc., Beaumont. The city's ambition is to become one of the great cotton-exporting ports of the United States.

Fitting ceremonies surrounded the loading of Beaumont's "first bale" by the United States Shipping Board Steamship West Cohas for Manchester, England. The entire first ship-

ment consisted of 1050 bales and following steamers were immediately booked.

Prominent representatives of the United States Shipping Board were present at the celebration and it was a source of pride to these men that under the American flag Beaumont's first cotton export is being carried to Europe. C. S. Nye, the assistant director of the United States Fleet Corporation, made an appeal for the unstinted support of all the people for the program to be placed before Congress at once asking for sufficient allowance to give the United States a merchant fleet second to none in the world. It was pointed out by other speakers that Beaumont is an important point on four of the greatest railway systems; that from its docks reach out lines of steel into a country producing annually not less than half a million bales of cotton which have preferential freight advantage at Beaumont. All of East Texas and West Louisiana, it was shown, would be directly and favorably affected by Beaumont having become a permanent cotton market and a direct port of export.

Ralph H. Kinsloe, president of the Beaumont Chamber of Commerce, outlined briefly the success of the endeavors of the organization from the time more than a year ago when the campaign was organized for the placing on Beaumont's municipal wharves and docks facilities for handling cotton, including a high-density Webb Compress and the first unit of a sprinkled warehouse.

Experimental Farms in Texas to Obtain Information on Which to Base Future Extension of Electricity to Farms.

College Station, Texas.—A large scale experiment throughout the State in the electrification of farms is to be undertaken through co-operation of power and light companies of Texas with A. and M. College.

At a meeting here of the Texas committee on relation of electricity to agriculture, it was decided to select 25 farms in various parts of the State for the experiment. These farms are to be known as experimental electrified farms, and on them the agricultural engineering department, with the co-operation of engineering and agricultural experiment stations and the committee on rural electrification, is to conduct a series of experiments covering perhaps three years in order to obtain for farms and electric companies sufficient information on which to base future extension of electricity to farms.

To what extent electricity can be used, what types of machines are required for farm use, what the returns will be in proportion to the investment by the companies and the farmers, and similar data must be accumulated, the committee stated, before this new field of usefulness can be entered by the electric companies with practical results.

The work of the committee is under the general direction of J. E. Waggoner, agricultural engineer. Dean F. C. Bolton of the College of Engineering is chairman of the committee.

Dallas, Texas, Facts in a Folder.

A pocket size folder issued by the Chamber of Commerce, Dallas, Texas, gives comprehensive data concerning that city and its life. It is entitled "Dallas From A to Z." The tabulated facts presented therein are especially useful to him who would have adequate knowledge about the place, its industrial, commercial and financial activities, etc. The city ranks 42nd in point of population, 15th in jobbing business, 19th in bank clearings, 23rd in postal receipts and 5th in general dry goods business. It is in the middle of a great farming territory and is surrounded by mineral resources of incalculable value. It is exceedingly busy and advancing.

OKLAHOMA CITY VOTES \$10,329,000 BONDS. To Remove Railroad Tracks and Build Station—Civic Center Planned.

A number of major improvements will soon be undertaken by Oklahoma City, which has voted bonds in the amount of \$10,329,000 by a majority of eight to one in one of the biggest votes ever polled at a special election in that city, according to advices from the Oklahoma City Chamber of Commerce, Stanley C. Draper, manager. Improvements contemplated include the removal of railroad tracks from the heart of the city and the construction of a joint station for the Rock Island and Frisco railroads, for which \$4,000,000 will be available. The construction of a civic center is also planned.

It is understood that \$1,700,000 will be used for the erection of a school building, \$900,000 for improvements to conduits and filtration plant, \$2,424,000 for storm sewers, \$100,000 for water main extensions, \$250,000 for sanitary sewers, \$70,000 for buildings and equipment for the fire department, \$50,000 for traffic control equipment, \$550,000 for two bridges and flood control and \$285,000 for the beautification of several streets in the Dale addition. E. M. Fry is city manager and B. M. Hart city engineer.

\$500,000 Junior High School Sub-Contracts.

Chas. H. Tompkins Company of Washington, D. C., general contractor for the erection of the proposed \$500,000 Garnett-Patterson Junior High School in Washington, advises that the following sub-contracts have been awarded:

Asphalt Floors—Ralph V. Rulon, Inc., Philadelphia, Pa.
Brick Work and Hollow Tile Partition—Lewis & Elliott, Washington.
Cut Stone—R. B. Phelps, Washington.
Electrical Work—W. A. Rogers, Washington.
Finishing Hardware—Rudolph and West Company, Washington.
Glass and Glazing—Henry Seim & Co., Baltimore.
Heating, Ventilating and Plumbing—Standard Engineering Company, Washington.
Interior Marble and Tile—National Mosaic Company, Washington.
Kalamain Doors—The Phillip Manufacturing Company, Easthampton, Mass.
Metal Partitions—The Mills Company, Cleveland, Ohio.
Metal Weatherstrips—Chamberlin Metal Weather Strip Company, Washington.
Millwork—Barber and Ross, Inc., Washington.
Ornamental Iron—Washington Stair and Ornamental Iron Company, Washington.
Painting—F. L. Campbell, Washington.
Plastering—Stanley Palfrey, Washington.
Sectionfold Partitions—Taylor Folding Partition Company, Washington.
Sheet Metal Work—William G. Carrico, Washington.
Slate Roofing—M. C. Huddleston & Co., Washington.
Steel Sash—Washington Office, Truseon Steel Company, Youngstown, Ohio.
Structural Steel—Washington office of Dietrich Brothers, Baltimore, Md.
Waterproofing—Contract Waterproofing Company, Washington.
Wood Floors—Harry G. Eckhardt, Washington.

The building will be approximately 80 by 140 feet in one wing and 200 by 66 feet in another, 3 floors and basement, of fireproof construction. A. L. Harris is the municipal architect.

Lake Charles Asks Bids on Wharf Sheds.

Lake Charles, La.—Bids will be received until December 20 by the Board of Commissioners of Lake Charles Harbor and Terminal District, Guy Beatty, president, and Elmer E. Shutts, engineer, for the construction of three steel wharf sheds, including the following: Shed 139.2 by 736 feet, and one 70 by 300 feet, the latter to widen the south end of shed No. 1; shed 70 by 300 feet and one 72 by 139.2 feet, the latter to widen and lengthen shed No. 2. Plans, specifications and proposal forms are on file at the office of the engineer.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore, we often publish letters with which we do not agree.—Editor Manufacturers Record.]

A Vigorous Denunciation by a Republican of Former Mismanagement of the Party in the South and a Plea for Two Parties.

WILLIAM R. GRIFFITHS, Stuart, Fla.

Every broadminded citizen who has any knowledge of politics knows that two strong political parties are needed in every State—that only thus can the people have, at least, an approach to an able, progressive, clean, economical government. The North, today, has that fighting chance. The fecund, worthy South has not. It is kept far back in progress as a whole by two "Old Men of the Sea."

First, because it still suffers from the paralyzing effect of a relic of the old "carpet-bagger" days, which robbed and throttled it, and, second, because of this until-now-continuing existence of Republican carpet-baggers who control and trade in the appointment, in some cases, of its Federal offices; by oligarchic methods, and in misusing the negro question as a club over Southern white men, this causing the whites to hate the very name "Republican"; as a result of which the South is kept solidly Democratic, torn by its own factional strifes, strengthened by the lack of party competition, resulting in many officials of inferior quality and lack of program in development.

There is no such thing as government by and for the people in the plans of the carpet-baggers. They do not want a real Republican party in the South, created by the votes of the people. They have no popular organization. Their occasional "conventions" are hand-picked "whited-sepulchres" and pure pretense, and rotten at that. But the end of rotten political oligarchies, the end of justified political hatred, and the birth of the freedom of the South through real two-party competition, is in sight, especially here in Florida.

In January, last year, 500 patriotic Republicans, tiring of former futile efforts to produce a real Republican party in Florida, met at Orlando and organized such a party; adopted an up-to-date program, nominated candidates for United States Senator and such State officers as were to be elected in 1926, and began organizing. Election day, the "Republican stockholders" in Florida, by overwhelmingly voting for our United States Senatorial, Judicial and Congressional nominees, instead of those put forward by the carpet-baggers' organization, ratified us as the Republican Party of Florida.

Since then organizations have been launched in counties having about two-thirds of Florida's population; over one-third of the election districts of the State actually have local self-elected organizations, and we are pressing forward this creation of a strong, efficiently organized party, militant and clean. Its leaders are building it up, from the election district units, so that it is truly a party of, by and for the people, Florida's individual voters. All its power is thus being vested in the individual voters, and nominations proceed from them or their publicly elected representatives.

If the National Committee and Northern Republicans support this successful revolt from the lethal politics of the South's office-trading gang, there is time to complete the organization of the remaining counties so as to give the Democrats a hard fight on national candidates and ensure both parties putting up their best men here and adopting some State-wide policies, which hitherto have been lacking.

The imminent need of a tariff to protect the Florida

farmers and fruit-raisers from ruin by Cuban and Mexican competition is another element which is strengthening the Republican movement here. These growers have tested the carpet-baggers' policy, found it mercenary and generally wanting, and will have nothing to do with its leaders, but are with our new Republican movement.

Thus, with proper aid from the Republican National Committee and Northern Republicans, we real Republicans—the only ones organized of and by the people—will give the Democrats in Florida a "good run for their money," and will, in all probability, elect at least two Republicans, maybe three, to our next Congress, to take care of Florida's tariff and improvement interest. The carpet-baggers, already repudiated by the people at the polls, can never hope to be able to do so.

How to Bring About Increased Agricultural Prosperity.

H. L. MASTERS, Dallas, Southwestern Manager, Larabee Flour Mills Company.

I should like to question a statement in one of your recent articles: "Farm relief must inevitably come if this country is to be saved from an agrarianism which would destroy much of its prosperity." Certainly, there must be progress and unfoldment in the minds of the producers, the situations to be met as time goes on. This must come, though, through education and missionary work with the farmers.

Our Government can spend millions and billions trying to equalize the returns to the farmers on certain products, but will never be able to defeat the inevitable and, may it be said, Divine law of Supply and Demand. Neither can the right ideas be forced on the producers, any more than the missionary can force religion on the heathen. They must set examples, patiently work and await the unfoldment of their ideas in the minds of those to be benefited. All the money spent cannot hasten the acceptance of new ideas, except by keeping before the people the true conditions and positive means of effecting a change at the source.

In Texas is carried on an educational program in diversified farming and reduction in cost of production through contests which have become popular State-wide. Publicity and great aid are rendered and the accomplishments in a great measure attributed to the newspapers, particularly the Dallas News. Demonstration farms, educational programs, on production as well as marketing, national campaigns, contests, interstate and intrastate, and publicity through the press will aid those who have the desire to improve, and will create desire in minds of many producers.

Those farmers who do not care to learn can find themselves out of business and working for the scientific and skilled ones who do care to progress. So it has been with every business in the world—and farming has become a business in every sense of the word. The educated business farmer can make plenty of money and never complains.

An overproduction is part of the game and the consequences must be borne, as with manufacturers who find themselves overproductive. There is no more reason why the Government should attempt to take any surplus crop off the producers' hands than to take the overproduction of any manufactured article off the manufacturers' hands. Yet this is the general opinion of what farm relief proposes.

THE IRON AND STEEL SITUATION

Pittsburgh Steel Market.

Pittsburgh, December 5—[Special.]—The near approach of the year end has not brought about any decrease in demand for steel, as was usually the case in the past, the change being a reflection of the hand-to-mouth buying policy lately in vogue, whereby buyers have no stocks to liquidate in anticipation of the annual inventory January 1. At the same time it is indicated that industrial activity is not undergoing any unfavorable turn. There are seasonal decreases in demand in some lines and increases in others.

Rail Orders.

Rail orders booked in November totaled about 600,000 tons, which with some 750,000 tons in October and 200,000 to 300,000 tons likely to be placed this month making a total for the annual rail-buying movement much the same as in the past two years. The contracts are in general for delivery over the first half of the new year, but in several cases specifications have been furnished whereby rail mills are now running at a fair rate, balancing any decreases there may be in other directions.

Pig-iron production was at about 1½ per cent lower rate in November than in October, and there was no material change in steel production, which has been unprecedentedly steady since July 1, at a rate of slightly under 40,000,000 tons of ingots a year, or about 68 per cent of the full productive capacity. This month is not likely to show much change, while there is nothing visible to prevent the regular seasonal increase which in the past four years has marked the first three months of the year.

Announcement of the Ford Motor Company that it expects to attain a production of 1000 cars a day by January 6 furnishes a disappointment to some steel producers, but others did not expect a more rapid advance toward quantity production than this. The full capacity is estimated at 10,000 cars and trucks daily, which may be estimated to represent a steel consumption equal to about 7 per cent of the rate at which steel has been produced in the past five months.

Steel prices do not show a favorable trend, there being slightly lower prices on sheets and strips. The recent advance in bars, shapes and plates is not seriously tested, as large buyers were allowed to cover to the end of the year at old prices.

Sheets Easier.

The sheet market is definitely easier. Black sheets are only quotable at 2.75 cents to 2.80 cents and galvanized at 3.60 cents to 3.65 cents, sales at higher prices having disappeared. Blue annealed sheets stay steady at 2.10 cents to 2.15 cents. While 4.15 cents is still named as the regular market on automobile sheets, the Ford Motor Company bought about 5000 tons at 4.00 cents. The sheet mills still have an ambition to mark up prices, but it looks as if they would first sell for first quarter. Prices now average as low as in April, when it was claimed many mills were operating at a loss.

Strips are easier, by smaller tonnages now going at prices which a month ago were made only on some large tonnages. The market is quotable at 2.10 cents to 2.15 cents for strips under 6-inch and at 1.90 cents to 1.95 cents for wider strips, up to 12-inch.

Nail makers have adopted a new card of extras, dated December 1, and reaffirm a base price of \$2.55, named last June. Meanwhile nails have been obtainable from jobbers at less than \$2.55. The new card puts an extra on 60d to 20d, sizes formerly base, and increases extras on most other sizes by amounts up to 20 cents, but allows 10 per cent discount on the entire extras, in carload lots to jobbers. Thus a very

substantial advance is contemplated. The test will hardly come before January, as there are engagements running through this month.

Cold finished bars have been at 2.10 cents to 2.20 cents, but makers have opened books for first quarter contracts at 2.20 cents, and intend to enforce the extras adopted October 17 on quantities under 6000 pounds of one size ordered for shipment at one time.

Valley foundry pig-iron is off 25 cents, to \$17.25, on purchase of the Standard Sanitary Manufacturing Company for first half delivery.

Birmingham Iron Market.

Birmingham, Ala., December 5—[Special.]—While selling has been under way for the past few days for delivery during the first quarter of 1928, tonnage of pig-iron booked so far is very light. The first 1928 business was taken by the smallest producer in the State, a company with one furnace. Reluctancy to open up books for next year has been noted on all sides, as it is again emphasized that at \$16 per ton, No. 2 foundry, there is very little margin of profit. Production is still steady, 18 furnaces making iron, 10 on foundry, 7 on basic and 1 on special brand. Every other week one or two of the furnaces are changed from foundry to basic and then back again, but the total number of iron makers in blast has been steady for some time.

No Change in Melt.

Melt of iron in the immediate district shows little, if any, improvement. Cast iron pressure pipe makers have been receiving a number of orders recently but no impetus in production is noted. It is stated that the winter operation of pipe shops will be quite steady and that shipments will continue to those sections where weather conditions do not entirely suspend the laying of pipe. These interests will no doubt carry more iron on their yards after the turn of the year than for a long while. Machine shops and foundries are showing no decided improvement. The Birmingham Machine and Foundry Company is building another of the large Webb cotton presses. In another department success has been attained with the patented auto-lift and the past week demonstration was made with an extraordinarily large sized lift built especially for a concern in New York. This same foundry and machine shop has been doing fairly well with its cast iron soil pipe departments and regular machine and foundry jobs have been fairly good. In another of the larger machine shops and foundries some activity is noted in the manufacture of units for pulverizing and burning coal under boilers, a method of fuel using that is being accepted in many industries throughout the South.

Indications are that delivery of pig-iron will be very active up to a few days before Christmas. There will be but little recovery until after January 1. Pig-iron making and coke production will not be interfered with by the holidays, so far as continuous production is concerned. Complete cessation will be seen in coal mining, steel making, pipe output and in other directions.

Better Feeling in Steel.

Better feeling is to be observed in steel circles, though there is no increase in production in any line for the present. The Southern Pacific Railroad order for 44,000 tons of 110-pound rail for delivery from the Ensley Works of the Tennessee Coal, Iron and Railroad Company became known the past week. Upwards of 122,000 tons of rails are to be delivered under orders made known up to the end of the past week, while considerable tonnage on railroad accessories, tie-plates

and so on has been booked. Ingalls Iron Works Company, large steel fabricators, report contracts for 650 tons structural steel for a stone finishing plant in this State and 150 tons for an addition to the Mignon, Ala., cotton mills of the Comer interests. The Ingalls Company with local and outside contracts has kept its two large shops in steady operation.

The coke market has been fairly steady, foundry coke moving right along. Domestic coke requirements have lagged some and independent coke producers have some surplus stock on hand. Foundry coke prices are on the \$5 per ton base. The coal mining industry has been lagging for several weeks. Domestic demand has been very slow up to a few days ago. Retail dealers have had large stocks on hand. Revised estimates are that the annual production of coal in Alabama will be 1,000,000 tons under that of 1926 when 21,508,812 tons were produced, the record output.

The scrap iron and steel trade continues slow and prices weak. Dealers are able to find all the stock needed. Heavy melting steel melters are still masters of the situation and practically fix the market price, now \$10.75 delivered in the home territory.

Quotations on pig-iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	11.50 to 12.00
Heavy melting steel	10.50 to 10.75
No. 1 cast	14.00 to 14.50
Stove plate	13.00 to 14.00
No. 1 railroad wrought	11.50 to 12.00
Old car wheels	14.00 to 15.00
Old tramcar wheels	14.50 to 15.00
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.)	13.00 to 13.50

The Metal Market.

New York, December 5—[Special.]—The strength in the metals, particularly in copper, is attracting attention in the business world in general, as evidenced by the rise of the copper shares on the stock exchange. In fact, copper has got upon its feet again after months and months of depression and dullness. The present selling price is 1½ cents per pound above the low point of the year, which is a wide margin for that metal.

Lead has been relatively the strongest major metal during the past week, the price having advanced \$5 per ton in three stages. Lead had been dormant over recent weeks while other metals were rising, just as it had not declined previously when other metals were on the downgrade. But over the past week lead made the most rapid strides of any metal, copper not excepted.

Zinc, which during the previous two weeks had given promise of getting back to 6 cents per pound, the minimum profitable level, took a slump the past week in view of continued unfavorable statistics at the sources of production, the ore fields in the tri-State district centering at Joplin, Mo.

Tin reached a new high price for the movement, touching 59 cents per pound, which is 3 cents per pound above the extreme low level of the year. Sentiment in tin gets better as the consumption of tin increases.

The outlook in the steel industry is slightly better, with the steel makers being confident of good business during the first quarter of 1928. The steel makers themselves calculate on using much zinc and tin for coating steel sheets. The automobile makers are buying much steel just now and, along with steel, the non-ferrous metals. The good effect which

the new Ford model announcement will have on business in general will be in tangible form as to the metals.

Among the precious metals silver is in the brightest position, the price having been over 58 cents per ounce for the first time in many months. Shipments of silver to India and China are heavy. Quicksilver has been very steady at \$128 per flask of 75 pounds, the same price of £23 prevailing at London. Antimony has been unusually steady at 10½ cents per pound, duty paid. Platinum is quiet and featureless at \$68 per ounce, pure grade.

A Seller's Market.

The character of the markets in the metals is undergoing a change. For many months it was a buyers' market because it was this class which dictated prices. However, it has become a sellers' market in copper and lead. Moreover, consumers are beginning to get away from the extreme hand-to-mouth character of purchasing. Copper consumers are buying eagerly as far as March 1. Copper producers could formerly ship out metal the day after it was ordered. Now at least three of the large refineries must wait about 15 days before shipping.

The first statistics so far for November pertain to tin, the world's visible supply being 14,594 tons, a decline by 90 tons during the month. The total compares with 15,257 tons a year ago. This means a strong statistical situation in tin. In other words, though the price is 10 cents per pound under a year ago, the world's visible supply is actually less and the outlook for consumption is just as good as a year ago.

Increase in Surplus Stocks of Zinc.

Zinc statistics for the first half of last month were unfavorable in that they showed a gain in surplus stocks of 2779 tons to a total of 39,002 tons of slab zinc. Moreover, the sales of zinc ore in the tri-State district are only one-half to two-thirds the production each week.

Copper statistics will not be available until a week from today. It is believed that the surplus stocks of refined copper will be about the same as last month, as they are already at virtually an irreducible minimum. However, the producers expect a gain in the mine production, which would be natural in view of the more attractive selling price. It is believed that sales of refined copper for export in November were the largest since Copper Exporters, Inc., was formed on October 15 of last year.

Germany Using Much Copper.

By the end of the week just passed copper was selling at 14 cents per pound in the domestic market and at 14.25 cents per pound, c. i. f. for export. Domestic consumers came into the market reluctantly but the foreign users bought copper without quibbling over price. Germany has been the stellar buyer. In fact, copper consumption in Germany during the past few months has been as great as in all the other European countries combined.

A brisk business in lead was done each day of the week, principal producers selling from 700 to 1000 tons each on an average. By Thursday the price of the American Smelting and Refining Company had been advanced to 6½ cents per pound, New York.

Prospects for tin were the brightest in several weeks. Tin deliveries to Europe in November were over 4000 tons, the first time this mark has been touched since January, 1925. The naming of a price on tinplate for the first half of 1928 was also a stimulating feature, inasmuch as it will promote purchasing from the finished tin can down to pig-tin. Sales of tin in this country were at the rate of 200 tons daily, a moderate turnover.

The price of zinc at the close of the week was 5.82½ cents, East St. Louis, though at the start sales for delivery next year had been made at 5.95 cents. Trading was quiet, whereas during the preceding week there had been a fair degree of activity.

RAILROADS

Reported Sale of Louisiana and Arkansas Railway.

Press dispatches from Texarkana, Ark., report the purchase of the Louisiana and Arkansas Railway by H. C. Couch of Pine Bluff, Ark., and associates for \$10,000,000, with \$500,000 placed in escrow with Charles S. McCain, president of the National Park Bank, New York city, the balance to be paid by January 15. It is stated that Mr. Couch, who is president of the Arkansas Power and Light Company, at Pine Bluff, made the announcement in New York, where the deal was completed.

The railroad was built by William Buchanan as a lumber transportation line and the main line is 195 miles long from Hope, Ark., southward to Alexandria, La., via Minden, La. From Minden to Shreveport, La., there is a branch 30 miles long and from Packton to Vidalia, La., is a line 77 miles long, making a total of 302 miles of railroad. Connection is made at Hope, Ark., with the Missouri Pacific and the Frisco systems, and at Alexandria, La., with the Rock Island system, the Louisiana Railway and Navigation Company's railroad, the Missouri Pacific, the Southern Pacific and the Texas and Pacific systems. At Shreveport connection is made with the Kansas City Southern Railway, the St. Louis Southwestern and the Illinois Central systems, in addition to the Louisiana Railway and Navigation Company's line, the Southern Pacific and the Texas and Pacific. At Vidalia, La., connection is with the Missouri Pacific Railway. At the latter point, by ferry, connection is also made with the Mississippi Central Railway.

W. J. Buchanan, a son of William Buchanan, is now president of the line, and J. A. Buchanan is vice-president, both at Texarkana.

Scope of Railroad Securities Association Enlarged.

The National Association of Owners of Railroad Securities, Milton W. Harrison of New York city, president, has, according to announcement there, decided to change its name to National Association of Owners of Railroad and Public Utility Securities, so as to take action with respect to the interests of holders of stocks and bonds in gas, light, traction and power companies as well as railroads. The Association, it is understood, is preparing to be active this winter with regard to legislation affecting railroads and other public service companies that will be proposed to the Congress at Washington.

The association was organized in 1917 by the efforts of the late S. Davies Warfield, president of the Seaboard Air Line Railway, and who was its first president until about three years ago when he retired to devote himself to his railroad interests in the South.

New Steamer for Cape Charles-Norfolk Route.

The Pennsylvania Railroad Company, according to a press report from Philadelphia, has awarded a contract to the Bethlehem Shipbuilding Corporation for the construction of a large passenger and freight steamer to operate between Cape Charles and Norfolk, Va., in connection with the new terminals that are being built at Little Creek, near Norfolk, the use of which will shorten the trip across the Chesapeake Bay by 12 miles, making it only 24 miles long instead of 36 as at present. Special provision will be made for the transportation of automobiles and their owners, space for 43 machines being allowed.

Motor Transport Division of Railway Association.

Due to the growth and increasing importance of the motorbus and the motortruck as adjuncts of railroad transportation, a new division of the American Railway Association has been created known as the Motor Transport Division. Membership in the division will be confined entirely to representatives of the railroads or their subsidiaries in the United States, Canada, Mexico and Cuba. Headquarters will be at the offices of the American Railway Association, 30 Vesey street, New York.

A. P. Russell of Boston, vice-president of the New York, New Haven and Hartford Railroad, and president of the New England Transportation Company, which operates the motorbuses of the New Haven system, has been appointed temporary chairman of the Motor Transport Division. The temporary general committee named to organize and outline the work of the division follows: A. P. Russell, temporary chairman; J. G. Drew, vice-president, Missouri Pacific Railroad; H. F. Fritch, passenger traffic manager, Boston and Maine Railroad; A. Hatton, general superintendent of transportation, Canadian Pacific Railroad; C. S. Lake, special assistant to president, Chesapeake and Ohio Railroad; G. W. Lupton, assistant to vice-president, Atchison, Topeka and Santa Fe Railway; R. N. Van Doren, vice-president and general counsel, Chicago and Northwestern Railway; T. B. Wilson, supervisor of transportation, Southern Pacific Railway; G. C. Woodruff, assistant freight traffic manager, New York Central Railroad.

George M. Campbell of New York, assistant to the secretary of the American Railway Association, will be secretary of the new division, which has been made necessary by the increase in the number of railroads which operate motorbuses, there being now approximately sixty. Its work will be divided into three sections, one for the study of the application of the motorbus to the use of steam railroads, another for the study of the application of the motortruck to the use of steam railroads and the third will devote attention to the application of the rail motorcar to the use of steam railroads, particularly on lines where passenger traffic is not sufficient to warrant the operation of passenger trains.

The first meeting of the division will be held in Chicago in January, the definite date to be fixed later, when a permanent organization will be perfected and the scope of the work of the division will be discussed.

New Equipment.

Equipment inquiries reported in the market include the following: Santa Fe system, 3850 freight cars, including the following: 1000 box, 500 gondola, 500 refrigerator, 300 flat, 500 automobile, 250 double deck stock, 500 single deck stock, 100 Rodger ballast, 100 caboose and 100 air pump; also 76 passenger cars, including 18 day coaches, 20 chair cars, 10 three compartment passenger and smoking cars, 10 baggage cars, 10 baggage and mail cars, 3 mail cars, 3 parlor cars, 1 passenger, smoking and baggage car and 1 business car.

Gulf, Mobile and Northern Railroad has ordered 2 Pacific type locomotives from the Baldwin Locomotive Works.

Baltimore and Ohio Statement.

A statement of the Baltimore and Ohio Railroad's earnings and expenses for the first 10 months of 1927 shows railway operating revenues totaling \$209,277,327; railway operating expenses, \$155,837,492; net revenue from railway operations, \$53,439,835; net railway operating income, \$40,902,564. For the month of October, the last month of the period, railway operating revenues totaled \$21,952,261; railway operating expenses, \$16,129,500; net revenue from railway operations, \$5,822,761, and net railway operating income, \$4,597,950.

Mid-West Freight Rates South Put on Equality With Rates From the East.

On December 1, pursuant to the decision of the Interstate Commerce Commission in the matter, all of the railroads east of the Mississippi River, according to an Associated Press dispatch from Chicago, announced a new schedule of freight rates from Mid-West points to traffic territory south of the Ohio River, thus placing the central States on a parity with eastern States.

It is further noted that the railroads, including every line between the Mississippi River and the eastern seacoast and between Chicago and the Gulf coast, chose to abide by the ruling of the commission rather than file a protest, and so announced their new schedule of rates which is to go into effect January 15.

The decision of the railroads, according to the dispatch, culminates a fight of more than 25 years by Middle West shippers and manufacturers for a revision of the present rates which they claimed prevented fair competition with Eastern shippers and manufacturers. It is further stated that the new rates will be uniform, varying only as to distance.

To illustrate the effect of the new rates, it is observed that Chicago shippers of boots and shoes to a point in Georgia will not have to pay \$86.40 more per carload than Eastern shippers have to pay. The same relative changes are made throughout all the Southern States, including North Carolina and South Carolina.

Contract to Reach Clinchfield Railroad Let by Louisville & Nashville System.

The Louisville and Nashville Railroad Company has awarded a contract to W. W. Boxley & Co. of Roanoke, Va., to build eight miles of connecting line from Cawood, Ky., to Hagans, Va., to make the desired connection from Chevrolet, Ky., for operating trains through to the Southeastern States via the Clinchfield Route. Four tunnels, aggregating 9000 feet in length, will have to be built through the Cumberland Mountains; one of them, it is stated, will be over 6000 feet long. Work will begin before January 1. The cost of the entire job, including track, will be \$5,000,000. It will take about two years to complete the work.

This new line, altogether about 14 miles long, will connect with the Cumberland division of the Louisville and Nashville system east of the mountain and coal trains will run over it and an existing connection to reach the Clinchfield. Eventually the line to Hagans will be continued directly eastward to Speers Ferry, Va., to make a much shorter route to reach the Clinchfield Railroad.

Report on Weekly Car Loadings.

Loading of revenue freight on the railroads for the week ended on November 19 totaled 968,103 cars, according to reports filed by the railroads with the Car Service Division of the American Railway Association. This shows a decrease of 6759 cars from the preceding week this year, reductions being reported in the loading of miscellaneous freight, livestock, forest products and ore, although increases were reported in the loading of grain and grain products, coal, coke, and merchandise and less than carload lot freight. The total for the week was a decrease of 103,604 cars under the same week last year and 89,820 cars below the same week in 1925. Since January 1 last there have been 47,441,242 cars loaded with revenue freight, which compares with 48,412,144 cars so loaded in the corresponding period of 1926 and with 46,600,612 cars in the same period of 1925.

Norfolk and Western Gets Medal for Safety.

The E. H. Harriman Gold Medal for the most conspicuous accident prevention work during the year 1926, and probably the most coveted prize in the field of accident prevention, has been awarded to the Norfolk and Western Railway, according to the announcement by Arthur Williams, president of the American Museum of Safety, and vice-president in charge of commercial relations of the New York Edison Company.

Three medals, all first prizes, were awarded to the Class 1 railroads making the best showing in safety work in three groups, classified according to the number of locomotive miles operated. Group A, in which the Norfolk and Western Railroad belongs, consists of those lines which in 1926 operated 10,000,000 or more locomotive miles. Group B comprises the railroads that operated 1,000,000 to 10,000,000 locomotive miles and Group C the railroads with a locomotive mileage less than 1,000,000 in 1926.

The first prize for Group B railroads, which is a silver replica of the gold medal, was awarded to the Duluth, Missabe and Northern Railway. This is the second consecutive year in which this railroad has won this medal.

The first prize for Group C railroads, which is a bronze replica of the gold medal, was awarded to the Quincy, Omaha and Kansas City Railroad.

"The Norfolk and Western Railway, which gets the gold medal for 1926," said Mr. Williams, "showed marked improvement in every phase of its accident situation, giving an excellent example of intelligent safety methods applied in a practical way to railway operation."

Stimulating Interest in Better Farming Methods.

A series of lectures on better farming methods in the Gulf, Mobile & Northern Railroad territory have stimulated interest by bringing before the people the agricultural possibilities of their section. The lectures are profusely illustrated and are given informally, we are advised by S. A. Robert, superintendent of the West Tennessee Experiment Station, Jackson, Tenn. The meetings have been well attended and much interest has been created as evidenced by the numerous questions asked whenever the program was presented.

The pictures illustrate the agricultural opportunities along the line of the railroad and the discussions center around the advisability of entering more generally into a program of diversified farming. It is pointed out that a system of balanced farming and the building up of agriculture will bring in home-seekers and industries dependent upon agricultural products for their raw materials which will aid the farming class. The advantages of the section are emphasized; such as a healthful, mild climate, good schools and churches, good roads and good railway facilities, a good timber supply and conditions which permit the two-crop system of farming from the growing of a variety of spring truck crops and fruits to the staple field crops of grains and cotton. The importance of the development of a livestock industry in connection with general farming is backed by an ample production of feed crops.

In thus picturing the possibilities of diversified farming through this series of lectures the Gulf, Mobile & Northern Railroad Company, which is the sponsor for the program, is rendering a helpful service to the people in its territory and aiding in the betterment of the section through creating interest in a broader agricultural development.

R. R. Cummins has been appointed superintendent of the Central of Georgia Railway's Savannah division with headquarters at Savannah, to fill the vacancy caused by the death of J. Reichert.

GOOD ROADS AND STREETS

\$250,000 Bonds Sold by North Carolina County.

Burgaw, N. C.—The Pender County Commissioners sold \$250,000 4¾ per cent road and bridge bonds to Otis & Co., Cleveland, Ohio, and the Title Guarantee and Trust Company, Cincinnati, for \$255,325.

\$250,000 Bridge Bonds Sold by Danville, Va.

Danville, Va.—This city recently sold \$250,000 4½ per cent bonds for the Main street bridge to Frederick E. Nolting & Co., Richmond, Va., and Harris, Forbes & Co., New York, for \$254,651.

Upper Deck of Susquehanna Bridge Opened.

Havre de Grace, Md.—The upper deck of the Susquehanna River bridge, connecting Havre de Grace with Perryville, which has been constructed by the State Roads Commission, Baltimore, at a cost of approximately \$240,000, has been completed and opened to traffic. The C. M. Neeld Construction Company of Pittsburgh, Pa., are the contractors.

Orange-Calcasieu Bridge Completed.

By TURNER T. WALLIS, Secretary-Treasurer, Chamber of Commerce, Orange, Texas.

The Orange-Calcasieu Memorial Bridge, opened and dedicated November 11, was constructed at a cost of approximately \$1,000,000 by the State of Texas, Orange county and the Federal Bureau of Public Roads. It was erected by the Brown-Abbott Company and Womack Construction Company of Dallas, the resident engineer being Herbert Eldridge, who designed and supervised the erection of the bridge for the State. It was constructed as a memorial to the ex-service men of the World War from Orange county, Texas, and Calcasieu parish, Louisiana.

The bridge closes one of the most important gaps on the Old Spanish Trail between Florida and California, eliminating a four-mile ferry which has been in operation for many years.

The swing span is 300 feet long and is electrically operated and can be opened or closed in three minutes. The steel span at each end of the swing span measures 75 feet, and on the Louisiana side has a dirt fill of two miles and a half, with a creosoted trestle one mile long. The steel was fabricated by the Missouri-Valley Bridge Company, Leavenworth, Kan.

The opening of this structure more than doubles the trade territory of the city of Orange and its construction has been directly responsible for the location here of two new industries, while several others are expected to come.

Additional Franchises for Toll Bridges Granted.

E. M. Elliott and Associates, Inc., Chicago, advise that they have obtained a franchise for the construction of a toll bridge across the Missouri River at Hermann, Mo., for which preliminary studies are now being made by J. L. Sverdrup, designing engineer. It is anticipated that cantilever construction will be employed, the bridge to leave a bluff on the Hermann side of the river and angle downward at about four and one-half degrees across the river, with a verticle clearance of about 60 feet and having a long steel trestle approach on the Montgomery side. This bridge, it is said, will be the only crossing over the Missouri River between Jefferson City and St. Louis, at St. Charles.

A franchise has also been obtained to bridge the Ohio River from Shawneetown, Ill., to Morganfield, Ky., the bridge to be located about 40 miles below Evansville, Ind. It will cross the Ohio River for a distance of approximately 3000 feet, extending downward into Union county, Kentucky, with a long steel trestle approach. The structure is estimated to cost \$1,500,000. Another bridge will cross the Ohio River at Mound City, Ill., to connect Missouri Highway No. 25, Missouri Government Highway No. 61 and Illinois Highway No. 2 with Kentucky Highway No. 60 and Government highways Nos. 60 and 41. Reports from Hamburg, Ark., state that a franchise has been granted by Desha county for a west terminus of a bridge across the Mississippi River at Arkansas City.

As previously reported, the Elliott organization has obtained franchises for the construction of bridges in various other sections of the South, including one over the Ocmulgee River near Fitzgerald, Ga.; across Spring River, near Miami, Okla.; across Missouri River between Liberty and Independence, Mo., across Missouri River at Arrow Rock, Mo., and at other points.

Alabama Asks Bids on 100 Miles Roads.

Montgomery, Ala.—Sealed bids will be received until December 20 by the State Highway Commission for seven road projects, covering a total of approximately 100 miles, and for one bridge project. The proposed road work will include five projects embracing a total of 63.35 miles of grade and drainage construction in addition to the grading and draining of the Calera-Columbiana road in Shelby county; two projects covering a total of 25.73 miles, one of which will consist of 9.09 miles in Dale and Coffee counties and one of 16.64 miles in Dale-Houston counties, and one project of 7.65 miles of chert road in Tuscaloosa county. The bridge project calls for a 480-foot steel, concrete and timber treated structure over Murder Creek in Escambia county.



ORANGE-CALCASIEU BRIDGE RECENTLY ERECTED ACROSS SABINE RIVER—CONNECTS TEXAS AND LOUISIANA.

TEXTILE

Pennsylvania Mill to Move to South Carolina— Initial Expenditure of \$500,000 for Hartsville Bleachery—Other Industries May Follow.

Hartsville, S. C., December 2—[Special.]—Following negotiations extending over a period of several weeks, the Easton Finishing Company of Easton, Pa., announces its decision to remove its plant from Easton to Hartsville. Negotiations for bringing the enterprise here have been conducted by representatives of the industrial departments of the Seaboard Air Line Railway and Carolina Power and Light Company, in co-operation with the Hartsville Chamber of Commerce and local business interests. A new company, to be known as the Hartsville Bleachery, will be incorporated under the laws of South Carolina to build and operate a mill for bleaching, dyeing and finishing cotton piece goods and rayon. Goods will be received from various points in the South to be finished here and then shipped to Eastern points by rail and water from Norfolk, Va. The enterprise will involve an initial expenditure of \$500,000.

It is the purpose of the new company to erect a mill building, 800 by 70 feet, to contain 60,000 square feet of floor space, of brick and steel construction, standard mill type, work to begin about January 1. Approximately 100 workers will be employed in the operation of the plant. The location of this mill is expected to be the forerunner of a diversified line of industries, such as shirt and collar factories and other garment manufacturing plants, and it is understood that the industrial departments of the Seaboard Air Line and the Carolina Power and Light Company are already in touch with prospects for locations in the vicinity of the proposed mill.

Contract for 8 Additional Houses for Slater Mill.

Marietta, S. C.—A contract has been awarded to the Townsend Lumber Company of Anderson, S. C., for the erection of eight dwellings for overseers for the new mill under construction here for the Slater Manufacturing Company. The houses will contain six rooms and will be equipped with modern plumbing and steam heat. They will cost about \$30,000. The Townsend Company was recently awarded contract to erect 100 dwellings for operatives, at a cost of approximately \$160,000. Sixty of these will contain four rooms; 20, five rooms, and 20, three rooms. J. E. Sirrine & Co. of Greenville, S. C., are the engineers.

Contract for 100 Appleton Mill Houses Let.

Anderson, S. C.—Another step has been taken by the Appleton Manufacturing Company in carrying out its program of expansion here at a cost of \$800,000, with the award of a contract to the Townsend Lumber Company for the construction of 100 cottages for operatives. The company plans to build 200 dwellings, and this contract represents the first unit to cost about \$135,000.

West Boylston Mill Completed at Montgomery.

Montgomery, Ala.—The new textile mill here of the West Boylston Manufacturing Company has been completed and put in operation, having been under construction about five months. The plant is equipped with 10,000 spindles and will manufacture automobile tire fabric. Robert & Co., Inc., of Atlanta, Ga., are the engineers and the Batson-Cook Company of West Point, Ga., general contractors.

\$600,000 EXPANSION PROGRAM FOR VIRGINIA WOOLEN COMPANY.

Work to Start Soon on First Unit—Large Power Plant Proposed—Will Require Three Years to Complete Work.

Winchester, Va.—The Virginia Woolen Company has decided upon a building program that will extend over a period of approximately three years and will result in the addition of 100,000 square feet of floor space, the erection of a modern power plant and the installation of additional machinery to increase the output about 75 per cent. A brick building, 60 by 150 feet, four stories high, mill type construction, will be the first unit. It will be designed and constructed under the supervision of W. B. Goode of the Virginia Woolen Company, but details will not be available for about 90 days. The power plant will not be considered for several months yet.

Machinery to be purchased will consist of looms, carding, spinning and finishing equipment. It is estimated that the buildings will necessitate the expenditure of \$300,000 and the mechanical equipment will require an expenditure of an equal amount.

Another Eastern Mill Moving South.

According to information from S. M. Edelstein & Co. of Union, S. C., the firm has been instrumental in having the Warwick Knitting Mills, Inc., of Brooklyn, N. Y., move its plant to Athens, Tenn. Contract for a mill building has been awarded to Tom Sherman of Athens, the structure to contain 55,000 square feet of floor space and to be equipped with sprinkler and heating systems. The plant will employ 250 operatives initially and expects to double that number within 18 months. It will be operated by a new company, for which a charter will soon be applied for. The mill will produce high-grade woolen sports wear, selling direct to the retail trade, and knitted dress goods for the jobbing and cloak trades. The Brooklyn plant of the company is equipped with 55 latch needle, 13 flat knitting machines and 110 sewing machines. Louis Eisenberg is president of the company.

Addition to South Carolina Textile Mill.

Honea Path, S. C.—The Chiquola Manufacturing Company has decided to increase the size of the mill addition recently awarded to the Gallivan Building Company. The original contract was for a four-story extension, 78 by 130 feet; this is now increased by the addition of four bays, making a total extension of 131 by 130 feet. The original plan to add 5000 spindles and complementary machinery has not been changed at present, but new space will allow for further machinery increases later. J. E. Sirrine & Co., Greenville, are the engineers.

Knitting Company to Establish Southern Unit

H. K. Regar & Sons of Philadelphia, Pa., confirm their purchase of the Barnes Knitting Mills at Cedartown, Ga., advising that no new buildings are contemplated at present but that the present buildings will be renovated and new machinery installed. The mill is expected to begin operations by January 1.

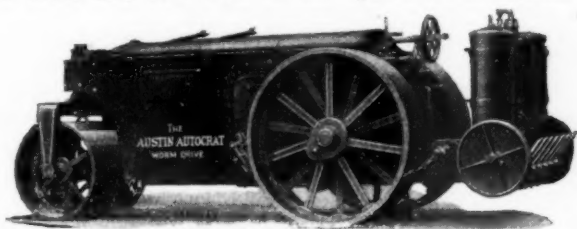
Beaumont Mill to Erect Dwellings.

Spartanburg, S. C.—As an initial step in a building program to involve about \$75,000, the Beaumont Manufacturing Company has secured permits for the erection of nine five-room dwellings. The entire program calls for the erection of 40 or 50 houses, dwellings for the accommodation of its textile mill employees.

MECHANICAL

An Improved Motor Roller.

A new 10-ton 4-cylinder motor roller with modern streamline design and duplex worm drive, has been announced by the Austin-Western Road Machinery Company of Chicago, and they claim that this pleasing design is the last word in utility and efficiency. It affords an absolutely unobstructed view of both front and rear rolls to the operator and shields the



ROLLER READY FOR THE ROAD.

motor and its component parts from dust, the elements and thievery.

A special new feature is the Duplex worm gear drive. Worm gears have been used for years in the better heavy motor trucks with great success, and after years of research, the Austin Manufacturing Company has finally adapted them for use in rollers.

"Now," says the company, "we have attained a transmission which is practically fool proof; simple; expert attention is not needed; flexible; immediate speed reduction; quiet; free from all undesirable vibration."

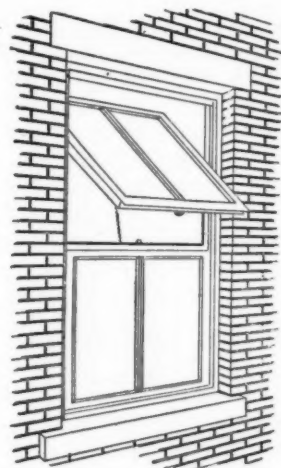
The heavy bronze gears, it is further remarked, will assure the users of the Austin Autocrat a long trouble-free service.

Fireproof Metal Windows.

With the idea of giving their dealers the opportunity to get the metal window business on jobs where many other items of their complete line are sold, the Milwaukee Corrugating Company, of Milwaukee, Wis., decided to add fireproof metal windows to their long list of fireproof sheet metal building products. These win-

dows furnished by the company carry the label of the Underwriters' Laboratories, an organization under the direction of the National Fire Protection Association, and every article that carries the Underwriters' fireproof label must pass rigid tests.

Each window tested is bricked into a section of wall and the wall is then hung on travelers and pushed into a testing house. The wall containing the window divides the testing house into two parts, the fire room and the observation room. Then 24 gas jets, each two inches in diameter, are lighted and a sheet of flame more formidable than that



APPEARANCE OF WINDOW IN USE.

produced by a great conflagration is poured against the window for a full hour. In some instances the temperature rises to about 1800 degrees Fahrenheit, or almost enough to melt glass. At the end of an hour the section of wall is removed to an open space and a stream of water with 60 pounds of pressure behind it is played upon the hot metal and glass.

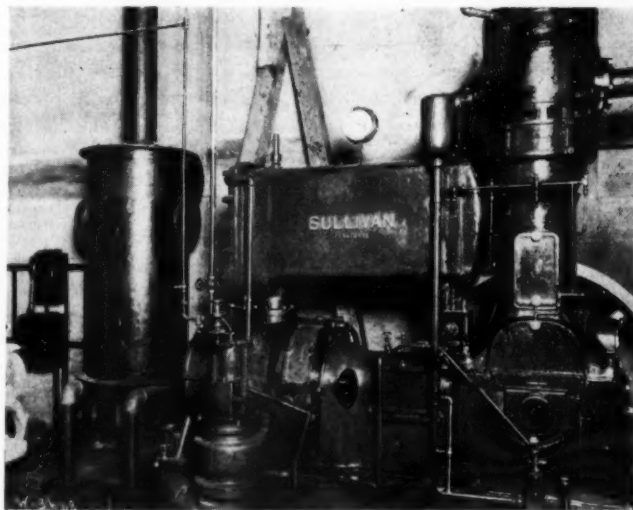
Clouds of steam arise, but the window emerges in fine condition. Tests on other types of these metal windows give similar results.

These fireproof windows are made of special stock No. 24 gauge galvanized flat sheet steel, only the best sheets being used. Several standard types are made; they are: pivoted, hinged, stationary, double-hung, and counter-balanced types, all carrying the fireproof label. The pivoted, hinged, and stationary types are made with one, two or three sashes to the window. The double-hung and counter-balanced types are made with two sashes only. Combination windows are made on order of customers in two or three sashes and in any size up to five feet by nine feet.

Angle Compound Air Compressor.

The illustration herewith was made from a photograph of the angle compound air compressor installed in the engine room of the Baker Hotel, Dallas, Texas. This machine is of the distinctive Sullivan angle compound design in which one cylinder—the low-pressure one—is horizontal and the high-pressure cylinder is vertical, operating in the same plane. This design, it is remarked, enables an exact balance to be provided between the operating members of the compressor so that it runs with great smoothness and practically no vibration. It also occupies a minimum of floor space; the picture displays its compactness.

Another interesting thing is the Maxim silencer, which may be seen at the left of the picture. It is attached to the



AIR COMPRESSOR, WITH SILENCER.

intake of the compressor and, it is stated, effectually prevents ordinary noises that are caused by the admission of air to a compressor cylinder, both when the machine is compressing air under load and also when it is in operation unloaded. There is also a muffler attached to the high-pressure relief valve on the vertical cylinder.

The hotel uses these compressors, which are made by the Sullivan Machinery Company, 122 South Michigan avenue, Chicago, Ill., for pumping water from two deep wells on the air lift system to furnish the supply necessary for the building, including the dining room, the coffee shop and the laundry. It is noted that this is the only water used in the hotel excepting when demand is at the peak load; then more is drawn from the regular city supply. The compressor works practically 24 hours a day during the six warm months and at least 12 to 15 hours daily for the rest of the year.

This is the second compressor installed by the Baker Hotel Company, the first having been put in the Texas Hotel at Fort Worth, Texas.

Skimmer Scoop With New Features.

A new Speeder skimmer scoop recently brought out by the Speeder Machinery Corporation, Cedar Rapids, Iowa, manufacturers of shovels, pull shovels, cranes, dragline, and back-fillers, has three exclusive features, viz. a high and low speed on the drums as well as on traction, a patented bucket trip, a traction lock and a bucket that dumps from the back instead of the bottom.

The bucket trip eliminates the bothersome trip rope on the bucket which is constantly inclined to become entangled, and



THE NEW MACHINE IN OPERATION.

it also permits the bucket to be dumped in any position, it not being necessary to force the bucket to the extreme end of the boom before being dumped. This feature is especially advantageous while working on narrow streets or in close quarters.

The back-dump feature, which is made possible by placing the pivots near the top of the bucket instead of the bottom, gives a dumping clearance greater than could be obtained with a bottom dump, which is very desirable in certain classes of work and adds to the life of the bucket by eliminating the hinge on the bottom, that carries the greatest load. The skimmer scoop embodies all the other Speeder features and change to it from any other attachment is accomplished by simply changing the boom and re-weaving the cables. It is full revolving.

A six-foot turntable and extra large caterpillar base give sufficient stability for the use of an 18-foot boom enabling the bucket to fill on very shallow cuts and giving added height to dumping clearance. A center quill, six inches in diameter, along with sturdy construction throughout enables the machine to successfully absorb the shock thrown upon it when it is used as a skimmer.

A Dust-Proof Electric Motor.

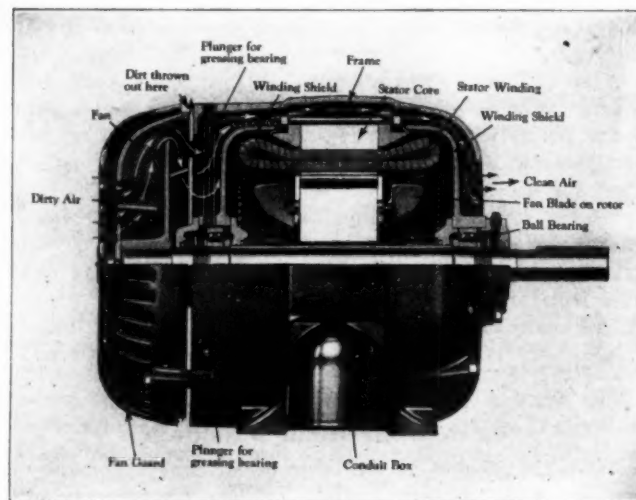
There has been a constant demand for an enclosed type of electric motor to meet particular operating conditions where there is much dust and particularly iron or other metal dust and there have been a number of developments in enclosed motors in the attempt to solve this problem, but the answer appears to lie in the recent development of enclosed self-ventilated types in which the windings are entirely protected from the air currents. There have been several developments of this sort, one of the most interesting of which is the recent announcement by Fairbanks, Morse & Company of a line of self-ventilated enclosed motors which also have an interesting air cleaner feature. The accompanying sectional view of one of these motors shows the construction very clearly.

This motor has a standard stator core and windings and a standard rotor mounted in a supporting shell with an annular air passage between the outside surface of the stator core

and the shell. Winding shields are provided so that the stator windings are totally enclosed, thereby preventing any dirt from gaining access to them. Cooling air is drawn through an inlet opening at the free end of the motor by means of a special type fan which also functions as an air cleaner. The clean air is blown across the winding shield at the free end of the motor, through the annular air space, then across the outer end of the stator core laminations, thence across the winding shield at the pulley end and out through openings in the pulley end bearing arm.

The fan is of the closed impeller type and is so constructed that the foreign particles are thrown out by centrifugal force, between the edge of the outer shroud and the supporting frame. A perforated guard is placed around this fan-cleaner and is carried by the supporting frame. The whole purpose of this guard is to prevent accidental contact with the fan; the fan itself being an entirely self contained air cleaner and blower.

Provision is made for lubricating the ball bearings of this motor without removing the guard, fan or bearing arms. This is accomplished by the use of a plunger device located



CROSS-SECTION, SHOWING CONSTRUCTION OF MOTOR.

in a grease tube extending through an opening in the bearing arm into the bearing housing.

Besides being impervious to dust and dirt this motor reduces fire hazard because the windings are totally enclosed. No air piping is required; it is self-ventilated. There are many fields of service such as flour mills, saw mills, rock quarries, machine shops, chemical plants, cement mills, ice plants and similar service where motors must be protected from dust, sawdust, metallic particles or corrosive liquids and fumes. In such places the demand for a simple, enclosed self-ventilated type of motor to give this protection will be met by this new device.

Dry Dock Company Enlarges Facilities.

Improvements which have been undertaken by the Maryland Dry Dock Company of Baltimore, including the construction of a new pier, will greatly increase the company's facilities at Fairfield. In addition to the pier, which will be 900 feet long and 60 feet wide, the company has purchased a 9000-ton Crandall floating dry dock and will install a Terry crane, fire, water and air lines and will extend the width of an existing 650-foot pier 16 feet. It will also do considerable dredging, contract for which has been awarded to the Arundel Corporation of Baltimore. Contract for the piers, which will be of timber construction on wood piles, has been awarded to Andrew Miller, also of Baltimore. All other construction will be handled by the company.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Fla., Miami—Carl G. Fisher, 846 Lincoln Rd., reported, negotiations are under way to lease land for flying field and base on Fisher's Island to commercial interests.

Ga., Atlanta—The Pitcairn Aviation, Inc., Land Title Bldg., Philadelphia, Pa., reported, low bidder for contract for the Atlanta-Jacksonville-Miami airmail route; service on new route may not begin until after the New York-Atlanta route is put in operation about March 1, 1928.

Ga., Atlanta—Aeronautics Branch of the Dept. of Commerce, Washington, D. C., reported, construction work has started on Richmond-New York section of the Atlanta-New York Airway, the Atlanta-Spartanburg section and the Spartanburg-Greensboro section; contract is about to be awarded on Greensboro-Richmond section and work will be started within 10 days of date of award; the beginning of the work on last section will find entire Atlanta-New York Airway under construction with time limit for completion about Feb. 15, 1928. Construction work involves expenditure by the Government of approximately \$200,000; John Bonforte, Airways Extension Supt. in charge of inspection work with Milton Wilson and Carl Christiansen, both Inspectors of Airways Construction. 12-1

Ga., Augusta—General Electric Co., Schenectady, N. Y., reported, awarded contract for 36 border lights and 8 obstruction lights, also 30 boundary lights for illumination of Daniel Flying Field; contract for 10,500 ft. cable awarded to Mann Electric Supply Co., 701 Gervais St., Columbia, S. C. 12-1

La., Opelousas—S. B. Wolff, J. P. Barnett and associates interested in establishing airport.

La., Monroe—Theo. F. Terzia, Pres., Quachita Parish Police Jury, reported, will receive bids Dec. 14 for construction airplane hangar at Selman Field; plans with Parish Engr.

Okla., Oklahoma City—Aviation Committee of Chamber of Commerce, reported, contemplates improvements municipal aviation field; open additional 80 acres adjoining field.

Tex., San Antonio—Mission Airplane Services of San Antonio and Orange Car and Steel Co., Orange, Tex., reported, leased space for hangar at Winburn Field, municipal airport.

Tex., Temple—Texas Aero Corp., capital \$50,000, incorporated; Roy Sanderford, E. K. Williams.

Tex., Wichita Falls—Wichita Falls Airport Corp., plans erecting 60x100-ft. hangar and lighting system, wood frame, iron siding, concrete floor; total cost about \$12,000; Joe B. Corrigan, 804 Hamilton Bldg., has contract for flood lights, beacons, markers, etc. 12-1

Va., Richmond—Dept. of Commerce, Washington, D. C., reported, endorsed proposal of Gov. Harry F. Byrd for establishment of state-wide chain of airports in Virginia; commission to formulate plans which include joint development by the localities furnishing the field have been formed by Harry F. Byrd, Gov. of Virginia; Commander Richard E. Byrd, Harry F. Guggenheim and others.

Va., Richmond—R. T. Flying Service, Inc., Roscoe Turner, Pres.; Montague Carson, Sec., Richmond, reported, operate passenger air service between Norfolk and Washington, D. C., via Richmond.

Va., South Washington—Washington Airport, Inc., chartered; J. C. Duke, Arlington, Va.; P. A. Chamberlain, J. R. Shields, 910 14th St. N. W., both Washington, D. C.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Tuscaloosa—Tuscaloosa County plans timber bridge over Hurricane Creek, on road between Holt and Shiras. Address County Commrs.

Arkansas—State Highway Comm. receives bids for 5 bridges and culvert. See Roads, Streets, Paving.

Ark., Bentonville—Benton County Quorum Court, W. R. Edwards, County Judge, plans 7 bridges: Lynn Hollow Bridge over White River, near Logan; Fairview School house, over Osage River, near Dixieland Place; Alden Farm, over Spavinaw Creek, 5 mi. south-east of Gravette; Spavinaw Creek, near R. R. bridge, 2 mi. south of Gravette; Count Hart Place, over Osage River, south of Bentonville.

D. C., Washington—Dist. Commrs., reported, rejected bids to reconstruct Virginia abutment of Chain Bridge. 10-13

D. C., Washington—Great Falls Bridge Co., Channing M. Ward, 2314 Grove Ave., Richmond, Va., interested, reported, considering toll bridge over Potomac River at Great Falls; higher up river than Chain Bridge, and lower down than bridge at Point of Rocks, Loudon County, Va.

Fla., Stuart—Martin County Commrs. plan 7 bridges: Across South Fork of St. Lucie; across Indian River at Olympia; across St. Lucie River, at present site of Palm City Bridge; 2 bridges across Canals in Salerno, on Old Dixie Highway. See Financial News—Bond Issues Proposed.

Fla., West Palm Beach—State Road Dept., F. A. Hathaway, Chmn., Tallahassee, plans bridge across West Palm Beach Canal, at foot of Olive Ave.; J. L. Cresap, State Highway Engr.

Georgia—State Highway Comm. receives bids for 2 bridges. See Roads, Streets, Paving.

La., Franklin—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, contemplates bridge across Berwick Bay, Franklin; N. E. Lant, State Bridge Engr.; Nicholls W. Bowden, State Highway Engr.

Md., Baltimore—City, Board of Awards, receives bids Dec. 14 to reinforce Cedar Ave. bridge over Pennsylvania R. R.; plans from Bureau of Highways, Nathan L. Smith, Highways Engr.; C. F. Goob, Ch. Engr.; Wm. F. Broening, Mayor.

Miss., New Albany—Union County, reported, may let contract in Jan. for solid concrete bridge over Tallahatchie River at New Albany, cost about \$70,000. Address County Commrs. 7-28

Mo., St. Joseph—State Highway Dept., Jefferson City, will design proposed toll-free Missouri River Bridge at St. Joseph, between Missouri and Kansas; Missouri State Highway Dept., T. H. Cutler, Ch. Engr., and the Kansas State Highway Dept. will supervise construction; J. Sverdrup, Ch. Bridge Engr. of Missouri Highway Dept.; J. E. Kirkham, Pierre, S. D., reported, Const. Engr.; Louis V. Stigall, Mayor.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans 2 bridges over Canadian River, at Robinson Ave. and Exchange Ave.; B. M. Hart, City Engr. See Financial News—Bond Issues Proposed. 11-3

S. C., Greenville—Greenville County will probably rebuild 60-ft. bridge with 10-ft. approaches at either end on Pelham-Greer road to replace wooden bridge recently damaged.

S. C., Johnsville—War Dept., Col. Hanford MacNider, Asst. Sec., Washington, D. C., reported, approved plans of South Carolina State Highway Dept., Ben M. Sawyer, Ch. Highway Commr., Columbia, for bridge over Lynches River, 2 mi. from Johnsville. 10-20

S. C., Orangeburg—Orangeburg County Highway Comm., J. W. Smoak, Chmn., plans 2 bridges: At Stroman's Hill and Wallow Swamp; L. C. Boone, County Highway Engr.

Tenn., Perryville—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, reported, receives bids in Dec. for concrete and steel bridge over Tennessee River near Perryville.

Tex., Brackettville—Kinney County, John H. Stadler, Judge, plans 2 concrete bridges: Over Elm and Cerenosa Creeks; estimated cost \$28,300; W. F. Hutson, County Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans bridge across Lake Worth; cost \$350,000. See Financial News—Bond Issues Proposed. 11-3

Tex., Graham—Young County Commrs., W. F. Parsley, County Judge, receives bids Dec. 19 for 140-ft. riveted steel span, 260-ft. creosoted timber approaches, over Clear Fork of Brazos River, near Ellaville; plans on file and from Guy R. Johnston, County Engr.

Tex., Port Arthur—H. L. McKee, Mgr. of Ad-Sign Co., 624 Proctor St., promotor, announced work will start about April 1, 1928, on \$1,500,000 causeway across Lake Sabine, connecting Port Arthur and Cameron Parish, La., if permit from Government has been received; Lieut.-Col. Julian L. Schley, U. S. Engr., Galveston, in charge of dist., approved plans; causeway to be built by private capital; will be 5½ mi. long. Lately noted City Comm. approved plans of Sabine Developers, Inc., to construct causeway. 10-20

Tex., Port Lavaca—See Roads, Streets, Paving.

Tex., Waxahachie—Ellis County, H. R. Stovall, Judge, plans viaduct over M. K. & T. and T. & B. V. Ry., Highway No. 6; estimated cost \$123,000; W. A. Spalding, Engr.

Va., Danville—City receives bids Jan. 3 for 1225-ft. concrete arch bridge at Worsham St. across Dan River; plans from C. L. Scott, Jr., City Engr. 10-27

Va., Newport News—War Dept., Col. Hanford MacNider, Asst. Sec., Washington, D. C., reported, approved revised plans of James River Bridge Corp., Henry H. Little, Pres., Law Bldg., Norfolk, for bridge over Nansemond River, near Lee's Landing. 9-8

W. Va., Huntington—City, W. E. Neal, Mayor, considering Piedmont Road Bridge over Four Pole Creek; \$75,000 available; estimated cost \$225,000. See Financial News—Bond Issues Proposed.

Contracts Awarded

Okla., Oklahoma City—Oklahoma County let contract to Jim Beatty, at \$7138, for 3 small bridges; to E. E. Hardie, at \$19,940, for several culverts.

Canning and Packing Plants

Fla., Molino—Escambia Cannery & Produce Co., Inc., chartered; J. A. Jacobi, Marcus Urso.

Tenn., Lenoir City—Busch Canning Co., reported, contemplates erection of canning plant.

Clayworking Plants

Ky., Summit—Johnson-Gates Brick Co., capital \$60,000, incorporated; P. W. Johnson, S. S. Willis.

Md., Baltimore—Harbison-Walker Refractories Co., Farmers Bank Bldg., Pittsburgh, Pa., reported, begin construction on \$1,000,000 plant at Curtis Bay as soon as detailed plans are completed; plant will be located

on 30 acres of land at Patapsco Ave. and Ninth St.; manufacture magnesite and chrome brick and kindred products; burning will be done in 2 large continuous kilns of Dressler type; kilns will use gas for fuel; Lee G. Morganroth, Farmers Bank Bldg., Pittsburgh, Pa., Engr. 8-25

Coal Mines and Coke Ovens

Ala., Birmingham—Alabama-Kentucky Coal Co., incorporated; H. P. Hanna, Age-Herald Bldg.; W. W. Ford, 1001 Caldwell Ter.

West Virginia—Negotiations under way for consolidation of about 15 or 20 mining companies with a capitalization of about \$50,000,000, reported; located in northern West Va., Western Pennsylvania and Eastern Ohio; some of the companies represented are: Hillman Coal and Coke Co., First National Bldg., Pittsburgh, Pa.; Bertha Consumers Co., Chamber of Commerce Bldg., Pittsburgh, Pa.; Valley Camp Coal Co., 820 W. Superior St., Cleveland, Ohio; Fort Pitt Coal Co., Farmers Bldg., Pittsburgh; McLane Mining Co.; Carnegie Coal Co., Oliver Bldg., Pittsburgh, Pa.; Duquesne Coal Co., Oliver Bldg., Pittsburgh, Pa.; Chartiers Creek Coal Co., Park Bldg., Pittsburgh, Pa.; Youghiogheny-Ohio Coal Co., Hanna Bldg., Cleveland, Ohio.

W. Va., Charleston—Hatfield-Reliance Coal Co., Plymouth and Winfield, W. Va., reported, acquired The Campbell Creek Coal Co.'s property including river craft and 12 miles railroad, mines at Putney and Point Lick about 12,000 acres coal lands.

W. Va., Fairmont—Clark Collieries Co., capital \$100,000, incorporated; Kenna Clark, A. J. Colborn.

Concrete and Cement Plants

Fla., Tampa—Florida Portland Cement Co., John L. Senior, Pres., James Bldg., Chattanooga, Tenn., offering \$1,750,000 6½% first mortgage sinking gold bond through E. H. Rollins & Sons and A. B. Leach & Co., Inc., New York; company now producing high-grade cement; plant includes docks for direct loading into ocean going ships and barges, which will give company advantage of water rates as to portion of output into the seacoast and gulf ports of Southern States, as well as foreign ports of West Indies, Mexico, Central America and South America. 2-11-26

Cotton Compresses and Gins

Tex., Donna—Donna Gin Co., T. S. Hester, Pres., will probably rebuild burned gin. 12-1

Drainage, Dredging and Irrigation

Ark., Newport—Burkholder Bond Co., Security Bldg., St. Louis, Mo., offering \$42,000 serial 5% bonds for the Cache River Drainage Dist., bonds issued for preliminary expenses for the district; Cache River Drainage Dist. located in extreme north-eastern portion Jackson County, and north-western part of Poinsett County, about 110,000 acres; Morgan Engineering Co., Engrs., Memphis, Tenn.

Ark., Osceola—Board of Commrs., Drainage District No. 8, receives bids Dec. 13 for pumping plant. See Want Section—Bids Asked.

Fla., Port Orange—See Miscellaneous Enterprises.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, dredge channel in Sinepuxent Inlet near Ocean City; receives bids Dec. 13. See Want Section—Bids Asked.

Tex., Casa Piedra—C. L. Vasques, reported, has permit to build dam in Almito Creek, irrigate 100 acres, Presidio County. 10-27

Tex., Edinburg—Hidalgo County Water Control and Improvement Dist. No. 6, reported, plans installing modern irrigation equipment to reclaim about 25,000 acres land comprising district, connecting all canals and laterals, etc. 9-15

Tex., Fort Stockton—Pecos Valley Water Users' Assn., reported, has project before State Board Water Engrs. for irrigation of 180,000 acres land known as Red Bluff Water Improvement Dist., embraced in Loving, Reeves, Ward and Pecos Counties.

Tex., Port Aransas—United States Dist. Engineers, Austin, Tex., reported, make survey to determine cost of channel 400 ft. wide, 30 ft. deep, between gulf and Port Aransas.

Tex., Rotan—A. D. Summerlin, reported, has permit to irrigate 57 acres, Fisher County, from Clear Fork of Brazos River.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Birmingham—Birmingham-Alabama Realty Co., reported, will have electricity installed in Mason-Dixie City by Alabama Power Co. 11-10

Ala., Birmingham—Harris, Forbes & Co., Bonbright & Co., Inc., and Coffin & Burr, Inc., all New York, are offering \$40,000,000 first and refunding mortgage gold bonds, 4½% series due 1967 of Alabama Power Co., Birmingham; company organized Nov. 10 under laws of Alabama as consolidation of former company of same name with Gulf Electric Co. and Houston (Ala.) Power Co., is one of principal subsidiaries of Southeastern Power and Light Company; company and affiliated companies and other utilities, including major portion of requirements of 2 affiliated companies serving respectively Western Florida and eastern half of Mississippi. 12-1

Ala., Birmingham—City Comsn., reported, have white way installed on Fourth Ave., by Birmingham Electric Co.; cost \$13,000.

Ark., Foreman—Southwestern Gas and Electric Co., reported, having survey made by T. E. Keeton, Engr., Texarkana, for lighting system.

Ark., Foreman—T. E. Keeton, Engr., Texarkana, reported, making survey for lighting system.

Ark., Little Rock—Harris, Forbes & Co., Bonbright & Co., Inc., Tucker, Anthony & Co., W. C. Langley & Co., Old Colony Corp., John Nickerson & Co., all New York, are offering \$3,000,000 first and refunding mortgage gold bonds, 5% series, due 1956, of Arkansas Power & Light Co., Little Rock, Ark.; company supplies electric power and light service through extensive transmission and distribution systems, aggregating 2923 miles, to large part of State of Arkansas, including Pine Bluff and El Dorado; also owns and operates electric railway systems in Little Rock and Pine Bluff.

Fla., Pensacola—Gulf Power Co., 40 S. Palafox St., reported, extend lines to Ferry Pass; later plans extension from Ensley to Cottage Hill, distance of 11 miles.

Ga., Columbus—Estabrook & Co., Stone & Webster, Inc., Blodgett & Co., Parkinson & Burr, all Boston, Mass., are offering \$2,000,000 first and refunding mortgage 5% gold bonds, Series B, of Columbus Electric and Power Co.; company incorporated in Georgia; does entire electric lighting and power, street railway and gas business in City of Columbus and vicinity and supplies electric light and power directly or indirectly in 10 neighboring cities and towns; through a subsidiary company, South Georgia Power Co., lighting and power service is also supplied to 41 towns and cities in Southwestern Georgia; generating capacity totals 83,400 h.p., of which 71,400 h.p. is hydro-electric. 11-17

Ga., Jefferson—Jefferson Electric Co. purchased by Georgia Power Co., Atlanta, will operate; no expansion contemplated at present.

Louisiana—Louisiana Power and Light Co., 2 Rector St., New York, are offering through W. C. Langley & Co., John Nickerson & Co., Guaranty Co. of New York, Old Colony Corp., J. G. White & Co., Inc., all New York; Rogers, Caldwell & Co., Inc., Memphis, Tenn., \$8,000,000 first mortgage gold bonds, 5% series due 1957; company supplies electric power and light service in wide area including 57 communities in industrial, agricultural, lumbering and mineral regions in northern Louisiana, in the southeastern part of State north and west of New Orleans, and in a district on Mississippi River south of New Orleans, including Algiers, Gretna, Hammond, Bastrop, Haynesville, Pinchault, West Monroe, Amite, Kentwood, Westgate, Napoleonville, Independence, Winnboro, Delhi and Ferriday; also operates electric railway systems in Algiers, Gretna and 2 other communities; supplies manufactured gas in Gretna and 2 other communities; natural gas in Bastrop and 2 other companies and water service in Bastrop and 3 other communities, and owns ice manufacturing plants in Haynesville and Amite.

La., Plain Dealing—Plain Dealing Utilities Co., Inc., capital \$30,000, incorporated; C. E. Bollinger, Plain Dealing; J. M. Newman, Shreveport.

Miss., McComb—Mississippi Central Power Co., reported, construct 2 sub-stations; extend power and light lines.

Missouri—E. H. Rollins & Sons, Boston; Spencer Trask & Co., Marshall Field, Glore, Ward & Co., Blyth, Witter & Co., all New York, are offering \$5,000,000 30-year sinking fund gold debentures, \$1,500,000 Series A, 5½%, and \$3,500,000 Series B, 5½%, of North American Light & Power Co.; company incorporated under laws of Delaware; controls entire common stock of Illinois Power & Light Corp., Missouri Power & Light Co., Kewanee Public Service Co. and owns 81% of common stock of United Power & Light Corp. (of Kansas), which directly or through subsidiaries serve a population of more than 1,580,000 in over 713 municipalities in Illinois, Iowa, Missouri and Kansas.

Mo., Jefferson City—S. & S. Electric Co., incorporated; Lawrence A. Sullivan, Percy Steppelman.

N. C., Charlotte—Merger, reported, of Southern Power Co., and Great Falls Power into the Duke Power Co. with Duke Power Co. being the operating and holding company.

N. C., Mooresville—Shepherd Electric Light and Power Corp. incorporated; F. B. Sherrill, C. L. Sherrill.

Tenn., Dyersburg—S. R. Blakeman, reported, has under construction power line; furnish electric lights to Fowlkes.

Tenn., Knoxville—Knoxville Power and Light Co., reported, acquired tract 500 ft. long and 340 ft. wide between Magnolia Ave. viaduct and E. Fifth Ave. underpass as probable site for future buildings.

Tenn., Knoxville—Standard Drilling Co., 420 Lexington Ave., New York City, will make core drill in connection with Cove Creek dam project covering development of Tennessee River; includes drilling 15 other sites along Tennessee, Clinch and Powell Rivers from Tazewell, Tenn., to Aurora Landing, Ky. 10-10

Tenn., Trezevant—J. H. Boyd of New York, representing Kentucky-Tennessee Light and Power Co., 61 Broadway, New York, reported, acquired light and water plant and 30 yr. franchise.

Tex., Del Rio—Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, reported, install two Diesel engines.

Tex., Denton—Graybar Electric Co., 100 E. 42d St., New York, reported, has contract for white-way lighting standards on Oakland Ave.; W. N. Harris, City Engr.

Tex., Edcouch—Central Power and Light Co., San Antonio, reported, construct reinforced concrete power plant; 58x102 ft.; J. W. Walter, Ch. Engr. in charge.

Tex., Fort Davis—Jeff Davis County Commissioners, reported, granted 50-year franchise to Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, to supply city with power and light; construction of plant to begin soon.

Tex., San Marcos—City let contract to Texas Power and Light Co., Dallas, to furnish equipment for street lights. 12-1

Tex., Whitewright—Texas-Louisiana Power Co., Fort Worth Club Bldg., Fort Worth, reported, construct power plant and cold storage plant; has site and completed survey; cost about \$300,000.

W. Va., Grantsville—Town Council, reported, considering street lighting proposal by Associated Maryland Electric Power Corp., a subsidiary of Associated Gas and Electric Corp., Johnstown, Pa.

Foundry and Machine Plants

La., New Orleans—See Miscellaneous Construction.

Mo., Kansas City—Castings—Standard Brass Manufacturing Co., Alex Noll, Pres., Thirteenth St. and Chestnut Ave., reported, erecting new plant, 100x128-ft., brick and steel, factory type, will have about 13,000 sq. ft. floor space, about double space of present plant, install additional equipment; manufacture brass, bronze and aluminum castings.

Tenn., Memphis—W. D. Browning, Lyceum Bldg., contemplates establishing metal salvage plant, install steel foundry, gear cutting department and machine shop, etc.; plans will be completed about first of year. See Want Section—Machinery and Supplies.

Tex., Wichita Falls—Wilson Corp., 607 N. Scott Ave., capital \$50,000, chartered; John Hart Wilson, 1627 11th St.; H. T. Wilson, 1719 10th St.; Mrs. Nevils Wilson; manufacture oil field specialties.

Gas and Oil Enterprises

Ky., Owensboro—Medley Brothers & Co., capital \$25,000, incorporated; Ben F. Medley, Wm. Medley, Frank J. Medley.

La., Baton Rouge—Baton Rouge Electric Co., reported, construct gas distribution system in Fairfields; cost \$25,000.

La., New Orleans—M. C. Carter, Inc., capital \$10,000, incorporated; M. C. Carter, 2340 Gen. Taylor St.; G. E. Wilson, Gulfport.

La., Shreveport—Shreveport-El Dorado Pipe Line Co., Commercial Bank Bldg., reported, acquired 667,000 shares of stock of Shreveport Producing & Refining Co.

Mo., Kansas City—Skidmore Oil Co., capital \$150,000, incorporated; L. Q. Skidmore, 129 E. 46th St.; L. C. Pensinger, 19 W. 62d St.

Mo., Kansas City—Missouri Oil and Royalty Co., capital \$100,000, incorporated; Leo B. Goldberg, 630 Scarritt Bldg.; J. O. Osborne.

Mo., St. Louis—St. Louis Gasoline and Fuel Co., capital \$75,000, incorporated; Walter A. Lone, 4884A Farlin St.; Ariene C. Tobin.

Okla., Tulsa—Independent Oil and Gas Co., Kennedy Bldg., reported, expend \$800,000 for expansion program, including 10-in. welded pipe line, distance of 45 miles; loading rack with capacity 150 cars daily; construct pumping station; extend Winkler County (Tex.) 10-in. pipe line distance of 25 miles; build loading rack of 100 cars capacity.

Tenn., Greenville—Englewood Drilling Co., capital \$10,000, incorporated; J. L. McLean, J. B. Evers, C. C. Wright.

Tex., Amarillo—Louis J. Root Gasoline Co., Inc., chartered; Louis J. Root, Vera B. Rask.

Tex., Amarillo—Joana Oil Corp., capital \$10,000, incorporated; A. R. Anderson, J. A. Anderson.

Tex., Big Springs—Consumers Gas Co., reported, has franchise and will erect distribution lines; pipe gas from Howard County gas field; cost \$300,000.

Tex., Borger—Dixon Creek Oil Co. will probably rebuild burned refinery.

Tex., Coleman—Community Gas Co., Dallas, reported, construct 10-in. gas pipe line from gas well north of Valera to connect with 8-in. Brownwood line.

Tex., Gainesville—Butcher Oil and Gas Co., capital \$12,000, incorporated; R. E. Powell, J. A. King.

Tex., Gatesville—Chamber of Commerce, reported, interested in construction of pipe line by Lone Star Gas Co.

Tex., Graham—Prairie Pipe Line Co., Independence, Kansas, reported, construct gravity receiving plant, lay 6-in. pipe line.

Tex., Houston—General Exploration Co., incorporated; S. L. Thomas, Homer Mabry, 2213 Mason St.

Tex., Midland—National Tube Co., Frick Bldg., Pittsburgh, Pa., is furnishing 51 miles of 10½-in. O. D. plain end, double length pipe beveled for welding for pipe line Atlantic Oil Producing Co., Magnolia Bldg., Dallas, is constructing from Winkler County field to Midland; Jones & Laughlin Steel Corp., Ross St., Pittsburgh, Pa., is furnishing 20 miles of single length pipe of same specifications; line will run from tank site at Wink to tank farm at Midland; 2 pump stations at Wink and near Judkins, each equipped with two No. 5 HMT type, 4-stage Cameron centrifugal pumps, each of which will be driven by type KTP 250-H.P., 1800-R.P.M., squirrel cage motor, General Electric Co., Schenectady.

Tex., Mount Pleasant—Dixie Gas Co., Houston, reported, applied for gas franchise.

Tex., Nacogdoches—Dixie Gas and Fuel Co., Houston, reported, install natural gas distributing system.

W. Va., Fairmont—Fairmont Natural Gas Co., capital \$25,000, incorporated; J. E. Offner, 500 Ogden Ave.; T. S. Neptune, Deveny Bldg.

Ice and Cold-Storage Plants

La., Gibsland—Gibsland Ice and Cold Storage Co., Edwin Winlock, Pres., let contract to Walter Moberly, for erection plant, 40x60-ft., brick, concrete floor, built-up roof; install ice machinery complete, 55 h. p. gas engine, generator and motor for auxiliary, furnished by Frick Co., Waynesboro, Pa.; Bruce McBeth, Cleveland, Ohio; Fairbanks-Morse Co., 900 S. Wabash Ave., Chicago, Ill.; power equipment purchased through Haywood & Williamson, Shreveport, La. 12-1

La., New Orleans—Tulane Ice Co., Inc., reported, increasing capital to \$250,000. 11-24

Tenn., Memphis—Hollywood Ice and Fuel Co., capital \$15,000, incorporated; O. E. Johnson, Vance M. Thompson, Ruth T. McCaughan.

Tenn., Memphis—Memphis Cold Storage

Co., 99 S. Front St., reported, let contract to E. J. Pearson, Fidelity Bank Bldg., for 1-story addition; electric wiring to Dawkins Electric Co., 26 N. Second St.; plumbing to Heisler Plumbing Co., 260 Vance St.; E. L. Harrison, Archt., Fidelity Bank Bldg. 11-24

Tex., McAllen—Valley Electric & Ice Co., reported, started work on \$100,000 ice and cold storage plant, brick and concrete, install modern machinery, daily capacity 50 tons.

Tex., McAllen—Central Power and Light Co., Frost Bldg., San Antonio, erect ice and cold storage plant addition, 1-story, reinforced concrete, brick, hollow tile and steel; also new roof on old building; John Marriott, Archt., Frost Bldg., San Antonio.

Tex., Palestine—Independent Ice Co., reported, soon let contract for improvements, including new storage plant, engine rooms, office, etc.

Tex., San Antonio—Texas Ice House, Inc., A. J. Zilker, Owner, Colorado and 2d St., Austin, reported, plans erecting 1-story, 78x105-ft. ice plant on Fredericksburg Rd.; reinforced concrete and hollow tile, cement floor, gravel roof.

Tex., Whitewright—See Electric Light and Power.

Va., Hopewell—Nickell Coal Co., reported, plans erecting ice plant at foot of DuPont St.

W. Va., Fairmont—North Pole Ice Co., reported, plans erecting \$25,000 ice plant cor. Bridge St. and Monticello Ave.

Iron and Steel Plants

Tex., Corpus Christi—J. B. Townsend, 804 McGowen St., Houston, reported, awarded contract at \$94,884 for construction 2-story building for Alamo Iron Works of 130 Santa Clara St., San Antonio; steel and sheet iron; R. J. Cummins, Bankers Mortgage Bldg., Archt., Houston. 11-17

Land Development

Ala., Birmingham—Richard Guest Development Co., capital \$10,000, incorporated; R. G. Guest, Robt. L. Brogdon, 1007 S. 26th St.

Ala., Birmingham—Dante Realty Co. incorporated; Rose Schilleci, 2601 Ave. C.; M. A. Ellis.

Ala., Birmingham—Mountain View Lake Co. incorporated; W. H. McGowen, E. Y. Beasley.

Ala., Birmingham—Tide Real Estate Co. incorporated; Grace S. Rush, Paul T. Parsons.

Ala., Birmingham—Sun Realty Co. incorporated; J. B. Renshaw, Frank A. Lee.

Ala., Birmingham—Alabama Caverns, Inc., capital \$20,000, incorporated; J. L. Kelley, M. L. Kelley.

Ala., Birmingham—T. J. Shirley & Sons Real Estate Co., T. J. Shirley, 1332 N. 29th St.; R. B. Shirley.

Ala., Birmingham—Bennett Realty Co. incorporated; E. E. Bennett, J. W. Cline.

Ala., Birmingham—Central Realty Co., capital \$20,000, incorporated; Horace Bradshaw, 2409 21st Ave. S.; W. P. Blair, 4001 Seventh Ave. S.

Fla., Fellsmere—Fellsmere Growers, Inc., capital \$25,000, incorporated; J. H. Sutherland, W. C. Braggart.

Fla., Fort Lauderdale—Ware Investment Co., incorporated; E. R. Bennett, Erma Bennett.

Fla., Hialeah—Hialeah Farmsites, Inc., increased capital stock from 50 shares, par value \$100 each to 2000 shares no par value.

Fla., Jacksonville—Florida Narcissus Farm, Inc., capital \$100,000, incorporated; J. L. Triplett, Jr., T. D. Ryan.

Fla., Jacksonville—Edgewood Heights Co., incorporated; F. E. Wood, J. A. Mamsieu.

Fla., Jacksonville—Hilton Properties, Inc., chartered; Jessie Kendrick, M. B. Kendrick.

Fla., Key West—General Holding Corp. incorporated; S. S. Spencer, F. C. Crawford.

Fla., Miami—Everglades Farms, Inc., chartered; G. M. Thompson, S. S. McCahill, both Realty Board Bldg.

Fla., Sarasota—Sarasota Groves, Inc., chartered; A. Y. Milam, Rhea V. Milam.

Fla., Sebring—Curtiss-Bright Co., developing 28,000 acres of a 40,000-acre tract for dairying, poultry, trucking and general farming; have erected school, hotel and other buildings; will erect farm houses, poultry houses, stores, model 40-acre farm, canals and roads, barns, etc.; Durkin-Ward & Updike, Inc., Selling Agts. 11-24

Fla., Tampa—Phillip F. Licata Co., incorporated; J. E. Licata, Joseph F. Chamoun.

Fla., West Palm Beach—Schupler, Inc., chartered; Joseph E. Schupler, Prospect Pk.; M. Y. Schupler.

Fla., West Palm Beach—First Holding Co., incorporated; Horace Van Metre, First American Bank Bldg., J. Leo Chapman, 321 Greyman Dr.

Fla., Winter Haven—Lake Hamilton Groves, Inc., capital \$10,000, incorporated; R. A. Sterzik, O. C. Maxwell.

Ga., Statesboro—Fred T. Lanier, Esq., reported, acquired 507 acres in Bulloch and Jenkins County.

Ga., Thomasville—C. A. Kaserman, Long Beach, Cal., reported, acquired 80 acres from Judge Roscoe Luke.

Ky., Louisville—George H. Hettich, Inc., capital \$20,000, incorporated; George H. Hettich, 2172 Southmore Blvd.; Joseph S. Lawton.

Ky., Louisville—Murphy and Curran, incorporated; Chester R. Murphy, 2032 Speed St.; Fred A. Curran.

Ky., Paducah—Board of Trade Commrs., reported, leased 70 acres land adjoining Noble Park for golf course; construct bridle paths, etc.; Perry G. Maxwell, Golf Archt.

La., Gretna—Gretna Realty Co. will develop 63 acre tract for subdivision; install streets, sidewalks, etc.; improvements to be handled by M. J. S. Webb, New Orleans.

La., Monroe—Jones-Allen Truck Co., Inc., capital \$25,000, chartered; W. E. Allen, River Front; W. H. Harretson.

La., New Orleans—Sterling Investment Co., Inc., capital \$20,000, chartered; Chas. E. Dunbar, Jr., United Fruit Co. Bldg.; J. Burrows Johnson, 339 Carondelet St.

La., New Orleans—E. L. Realty Co., Inc., capital \$50,000, incorporated; Vincent Lo Rocchi, Mrs. Josephine Eckert.

La., New Orleans—Coyle Realty Co., Inc., capital \$10,000, incorporated; F. DeBardelben, Jas. E. Muldrey, 4922 Coliseum St.

Md., Baltimore—Gillet Building Corp., 101 Light St., incorporated; Charles B. Gillet, John P. Winand.

Md., Baltimore—The Allview Development Co., U. S. Fidelity and Guaranty Bldg., incorporated; Edgar Allen Poe, J. Kemp Bartlett, Jr.

Md., Baltimore—The Hagan Co., 430 W. Conway St., incorporated; Laurence E. Hagan, Charles S. Mason.

Md., Hagerstown—Alexander Realty Corp., incorporated; Howard P. Hartman, E. L. Masters.

Mo., Clayton—City, reported, defeated bonds for parks and playgrounds. See Financial News—Bond Issues Proposed. 9-29

Mo., Jefferson City—City, Cecil W. Thomas, Mayor, reported, plans voting on bonds for playgrounds and athletic field.

Mo., Kansas City—Steinman & Co., capital \$25,000, incorporated; M. E. Lane, Aberdeen Hotel; E. C. Steinman, 6833 Paseo St.

Mo., Kansas City—W. F. Coen, of Coen Building Material Co., 842 Westport Rd., reported, develop subdivision on Wornall Rd.; construct streets.

Mo., Kansas City—Gulfport Realty Co., incorporated; Wm. T. Johnson, 3650 Harrison St.; Wm. C. Lucas, Ludwick Graves, both 312 Keith and Perry Bldg.

Mo., St. Louis—Parkway Realty Co. incorporated; Harley A. Lowe, 4915 W. Pine St.; Warren Miles, 1521 Locust St.

Mo., St. Louis—Haw Land Co., incorporated; John A. Love, Ladue and Price Sts.; George B. Evans, 1017 Olive St.; W. M. Warren.

Mo., St. Louis—Burke Building & Development Corp., capital \$100,000, incorporated; Morris M. Burke, 6232 Northland Ave.; I. Davis, 726 Westgate Ave.

N. C., Charlotte—Alfred W. Brown, Law Bldg., reported, interested in installation of water and sewer lines and paving in Chantilly subdivision.

N. C., Dunn—Goldstein Realty Co., capital \$20,000, incorporated; Ellis Goldstein, J. R. Young.

N. C., Faison—Taylor-Martin Realty Co., capital \$25,000, incorporated; L. R. Taylor, W. B. Martin, Lucile E. Taylor.

N. C., Winston-Salem—Realty Bond Co., 16 W. Third St., reported, developing subdivision on N. Cherry St.; will grade streets, install water and sewers.

Okla., Oklahoma City—City voted \$285,000 park bonds. See Financial News—Bond Issues Proposed.

Okla., Tulsa—Tulsa Landscape & Nursery Co., Inc., 2701 S. Peoria St., reported, has

contract for \$20,000 worth of landscape and nursery work on 40 acres in northwest part of Memorial Cemetery.

S. C., Columbia—Palmetto Realty Co. incorporated; R. H. Walton, W. J. McCormick.

Tenn., Memphis—C. H. Bradshaw, 279 N. McNeil St., reported, acquired 110 acres on Lee Highway.

Tenn., Memphis—T. Hart, reported, acquired 110 acres near Bailey Station.

Tex., Dallas—Continental Development Co. incorporated; J. M. Wilcox, 4611 Cole St.; J. T. Mackey, 5601 Hudson St.

Tex., Donie—H. A. Felder and associates of Dallas, reported, develop 1000 acres land in Freestone County for vineyard.

Tex., Fort Worth—City, O. E. Carr, Mgr., votes Jan. 10 on \$350,000 park bonds.

Tex., Houston—City, reported, acquired and will develop 23 acre park site; Geo. Woods, City Mgr.

Tex., Houston—J. M. West, West Bldg., reported, purchased 3991 acres on Galveston-Houston Highway.

Tex., Laredo—John Armengol has 1000 acres; will develop 175 acres in citrus trees; install complete irrigation systems, including pump and pump lines; water for irrigation pumped from Rio Grande River. 11-24

Tex., Laredo—Central Land Co. incorporated; W. J. Sames, E. J. Dryden.

Tex., Rankin—W. E. Harrison, reported, developing tourist park.

Tex., San Angelo—Concho Realty Co. incorporated; C. T. Dalton, H. L. Griswold.

Tex., San Antonio—Syndicate Improvement Co., capital \$35,000, incorporated; J. F. Armstrong, Frost Bank Bldg.; A. H. Morton, Nat. Bank of Commerce Bldg.

Va., Hopewell—Woods-Seward Realty Corp., reported, develop subdivision on Broadway.

Va., Portsmouth—Sherman Park Realty Co., capital \$25,000, incorporated; W. C. Norcum, 1829 High St.; R. A. Robertson, Insurance Bldg.

Va., Potomac—Potomac Realty Corp., capital \$15,000, incorporated; Pomeroy P. Clark, Wm. F. Kirwan.

Lumber Enterprises

Ga., Savannah—W. W. Smith Lumber Co., capital \$75,000, incorporated; W. W. Smith, Wilson W. Smith, R. L. Brown, 1023 E. 48th St., reported, established hardwood plant on Louisville Rd., operate in Chatham County.

N. C., Raleigh—Baker-Thompson Lumber & Supply Co., capital \$100,000, incorporated; J. E. Beamon, J. L. Primrose, 1025 Vance St.

Tenn., Johnson City—Sells Lumber and Manufacturing Co., Sam R. Sells, Pres., rebuilding burned plant, 18x116-ft., 6 kilns, 3 tracks each, brick; cost \$35,000; construction by owner; install sprinkler system throughout kilns and plant, 44,000 gal. tank.

Tex., Center—Frost-Johnson Lumber Co., contemplates extending operations in Shelby County.

W. Va., Bridgeport—Southern Pine Lumber Co., A. H. Cundell, Pres., Clarksburg, W. Va., reported, acquired property of Bridgeport Lumber and Construction Co., operate in connection with Clarksburg property but separate lumber yards will be maintained.

Metal-Working Plants

Ala., Birmingham—General Metal Products Co., capital \$10,000, incorporated; C. F. Anderson, 4131 Crescent Pl., Mrs. M. G. Drake.

Mining

Ala., Birmingham—Coalburg Mining Co., incorporated; P. G. Wood, Lewisburg, C. H. Nesbitt, Chamber of Commerce Bldg.

Ala., Russellville—J. S. Manning of New York City and associates, reported, acquired stock of Don Creighton, Nashville, in the mining properties of the Rockwood Alabama Stone Co.; property holdings embrace modern working plants and 1500 acres limestone lands; will continue operation under old name; officers of purchasing company are: J. S. Manning, Pres.; 19 Oliver St.; Charles A. Perry, Vice-Pres.; Albert Mau, 1749, Sec.-Treas., all New York City; Grady Farley, Asst. Treas., Russellville.

Fla., Bartow—Florida Sand Corp., capital \$500,000, incorporated; S. D. Gooch, M. E. James.

Okla., Picher—Federal Mining & Smelting Co., Wallace, Idaho, reported, acquired the Tar Creek zinc and lead mines, will mill the ore in Munice mill on adjacent tract.

Tex., Marfa—A. A. Snell, care of Jordan

Hotel, and associates, have about 5000 acres of sodium and potash nitrates deposits, will develop, have purchased most of machinery for 500 ton plant. See Want Section—Machinery and Supplies.

Va., Gloucester—Roaring Spring Marl Lime Co., Inc., R. M. Janney, Pres., has 25 acres under development, will make poultry shell and agricultural lime as by-product; installed hoists, boiler, conveyor, screen, engine, bucket, pumps; all purchased. 11-24

Va., Petersburg—Friend Sand and Gravel Co., capital \$15,000, incorporated; Geo. W. Shuster, Pennsylvania Bldg., Philadelphia, Pa.; W. I. Cox, 1678 Berkeley Ave., Thomas Whyte, 22 Franklin St., both Petersburg.

Va., Woodstock—Hy-Grade Manganese Co., Chas. W. Massie, Sec.-Treas., plans developing manganese deposits in Virginia.

Miscellaneous Construction

Fla., Daytona Beach—City Comms., reported, receiving bids for construction dock on south side of island or smaller docks along water front north of Casino, use for pleasure boats, etc. 9-15

Fla., Fort Pierce—F. G. McMullen, St. Lucie County Commr. of Florida Inland Navigation Dist., reported, announced acceptance by Harry S. Kelsey of an offer of \$725,000 for East Coast Canal; bond issue for purchase of property will be submitted to vote of district.

Fla., Pinellas Park—Incinerator—Town Comms., plans installing modern garbage incinerator. See Financial News—Bond Issue Proposed.

La., Lake Charles—Wharf Sheds—Lake Charles Harbor and Terminal Dist. Comms., Guy Beatty, Pres., receives bids Dec. 20 for steel wharf sheds; Elmer E. Shutt, Engr. See Want Section—Bids Asked.

La., New Orleans—Port Comms., reported, receive bids Dec. 29 to construct 300x75-ft. reinforced concrete and steel frame office building, machine shop and garage store house building at foot Canal St., including limestone balustrade on edge of levee from Canal St. ferry house to Poydras St. facade; proposed structure will have sand blast concrete exterior, wood and concrete floors, built-up composition roof, steam heat, plumbing, electric wiring; plans with Supvr. of Purchases, 500 Camp St.

La., Point-a-la-Hache—Levee—Board of State Engrs., 213 New Courthouse Bldg., New Orleans, receives bids Dec. 12 for levee work on Lucan canal extending to Adolph's leve in Plaquemines Parish, Grand Prairie Dist., 16,000 cu. yds.

Md., Baltimore—Port Development Comsn., received low bid from Merritt-Chapman & Scott Corp., 17 Battery Place, New York City, at \$896,150 for substructure of commercial pier at Port Covington to be constructed under port development plan; leased by Western Maryland Ry. Co.; J. E. Greiner, Engr., Lexington Bldg. 11-10

Okla., Oklahoma City—City voted \$550,000 for bridges and flood control bonds. See Financial News—Bond Issues Proposed. 10-20

S. C., Charleston—Port Utilities Comsn., No. 1 Vendue Range, let contract to Salmon's Clement Co., 9 State St., at \$15,994, by fire; wharf 260x117-ft. creosoted timber throughout; firewall 80x25-ft. concrete construction; steel shed 260x80-ft.; cost including equipment \$125,000; install electric hoists and scales; J. F. Prettymann & Sons, furnish creosote piling and lumber; various other local dealers supplying hardware, etc.; bids will be called later for erection shed on wharf; J. H. Garety, Engr., 1 Vendue Range. 11-24

Texas—Expenditure of \$8,439,735 for improvements and repairs to national light-house service during fiscal year beginning June 1928, reported, recommended by Geo. R. Putnam, Commr. of Lighthouse, Washington, D. C., as follows: Eighth Dist. along Gulf Mexico coast, \$152,250 for depot; \$16,000 for gas buoys at Sabine and Sabine Pass, La. and Tex.; \$13,000 for entrance range lights at Brazos Santiago, Tex.; \$37,000 for navigation aids at channel Corpus Christi.

Tex., Fort Worth—Col. Hal. C. Horton, Pres., 36th Division Assn., Austin, and associates interested in erecting 10,000 memorial monument; has 60x120-ft. site for park and monument.

Tex., San Antonio—City, Phil Wright, Acting Mayor, having plans made for over-flow flood channel work, section No. 3, Dolorosa St. to river; Col. S. F. Crecelius, Flood Prevention Engr.

Tex., Texas City—Wall, etc.—Galveston County Comms., reported, plan constructing dike or protective wall around Texas City, estimated cost \$700,000; E. B. Holman, Coun-

ty Judge, C. C. Washington, County Engr., Galveston.

Miscellaneous Enterprises

Ala., Birmingham—White Swan Laundry Co., 2814 S. Sixth Ave., reported, receiving bids for erection 1-story laundry addition; C. H. McCauley, Archt., 708 Jackson Bldg.

Ala., Birmingham—Universal Shirt Co., James D. Johnson, V.-Pres.-Gen. Mgr., S. Forty-first St., reported, increased capital, \$100,000 to \$250,000; negotiations under way for purchase building on Tenth Ave. N., increasing facilities, etc.

Ala., Birmingham—Jefferson Cleaners, reported, plans erecting 1-story, 50x140-ft. dry cleaning plant, Twenty-sixth St. and Alley G, brick and hollow tile, built up roof; cost \$15,000; C. H. McCauley, Archt., 709 Jackson Bldg.

Ala., Birmingham—Whitehead-Branum Electric Co., incorporated; E. A. Branum, H. L. Kyle, 1313 S. 31st St.

Ala., Birmingham—Jefferson Cleaning & Dyeworks, capital \$10,000, incorporated; B. G. LeGrand, Martin Bldg., W. L. Franklin.

Ala., Birmingham—Birmingham Furnace & Roofing Co., incorporated; J. C. Brittain, 217 S. 13th St., G. R. Van Dye, 8217 First Ave., S.

Ala., Birmingham—Electric Service Co., incorporated; T. W. Atkinson, Armstrong Cory.

Ala., Birmingham—Alabama Ad Co., incorporated; John J. Sullivan, Paul Herring.

Ala., Birmingham—Alabama Optical Co., incorporated; C. A. West, 601 Princeton Ave., L. H. West, 4110 Court St., S.

Ala., Birmingham—Coca Cola Bottling Co., Crawford Johnson, Pres., 508 S. 22nd St., reported, expend about \$200,000 on erection bottling plant, purchased site on N. Tenth Ave.

Ala., Birmingham—A. H. Cather Publishing Co., 419½ N. Twenty-first St., will occupy new building at Nineteenth and Ninth Ave., now under construction; some new printing machinery will be purchased later; Consumers Electric Co., Birmingham, furnish electric lighting. 12-1

Ala., Birmingham—City Comsn., reported, plans installing additional street lights and fire hydrants.

Ala., Montgomery—Frank P. Glass, reported, acquired majority ownership of the Montgomery Advertiser through purchase of stock owned by Victor H. Hanson, Publisher of The Birmingham News and Age-Herald; R. F. Hudson, continues as business manager and secretary; Grover C. Hall, Editor.

Ark., Bentonville—Benton County Hatchery, Inc., capital \$11,200, incorporated; W. P. Durnal, Bentonville; B. E. Phipps, Fayetteville; F. M. Clayton, 600 E. Centennial St., Carthage, Mo.

Florida—Moxie Manufacturing Co., Daniel McKay, Pres., 74 Heath St., Boston, Mass., reported, plans establishing branch distributing plant to cover Pinellas, Hernando, Pasco and Citrus Counties and plant in Tampa to cover Hillsborough, Polk, Manatee, Sarasota and Charlotte Counties.

Fla., Bradenton—Floro Rubber Co., Inc., chartered; Rina Bartley, Joseph Bartley.

Fla., Jacksonville—Disinfectants—Finole Chemical Co., capital \$100,000, incorporated; W. R. Powell, 121 Mallory St.; J. C. Charles, 1420 Myra St.; U. E. Powell.

Fla., Lake Worth—United Dairies, Inc., chartered; W. D. Shields, G. W. Mann.

Fla., Miami—Hotels, etc.—T. T. Corp., capital \$50,000, incorporated; C. T. Hoffman, 62 W. Flagler St., J. A. Dunn.

Fla., Miami—The A. C. Grimm Co., Inc., 736 S. W. Sixth St., advises, plans erecting modern addition to factory, to be completed within next eight months, manufacturers the "New-way" cabinet. 12-1

Fla., Miami—Soft Drinks—Florida Dry, Inc., capital \$40,000, chartered; I. S. Copeland, W. J. Copeland.

Fla., Miami Beach—Hotel Parada Corp., capital \$150,000, chartered; J. G. Fitzgerald, J. J. Sherlock, A. J. Fitzgerald.

Fla., Orlando—Electrical Equipment—Fred G. Tegder, Inc., capital \$10,000, chartered; F. G. Tegder, Lake Shore, S. E. Hutchins, A. E. Tegder.

Fla., Pensacola—Naval Stores—The Newport Co., J. H. McCormack, Gen. Mgr., W. Main St., reported, plans expending \$225,000 on extensions in addition to partially completed \$400,000 improvements which are now under way; installing additional machinery and equipment. J. H. McCormack, V.-Pres., The Newport Co., advises: "We contemplate certain additions to our Pensacola plant for manufacture of special products."

Fla., Pinellas Park—Town Commrs. plans installing fire alarm system. See Financial News—Bond Issues Proposed.

Fla., Port Orange—South Atlantic Fisheries, Inc., Antonio H. Ramos, Pres., reported, construct warehouse on Halifax river, 93x50-ft., frame and corrugated iron, pine floor; equip with facilities for icing, packing and shipping shrimp and other seafoods; install ice grinders and containers; also dredging channel and turning basin; construction begun; H. B. Cassin, Engr., 256½ S. Beach St., Daytona Beach. See Want Section—Miscellaneous. 12-1

Fla., St. Petersburg—Fairfax Drug Co., capital \$10,000, incorporated; Patrikios Theodoros, Stef Theodoros.

Fla., Sebring—General Research Laboratories, Inc., S. Ridgewood Drive, Edw. L. Hainz, Sec., has 50x150-ft. building, will install mixers, shakers, bottling machinery, etc. See Want Section—Machinery and Supplies. 11-24

Fla., Tampa—Construction—Tamp-A-Lithic Concrete Unit Co., capital \$10,000, incorporated; Bailey B. Baxter, C. M. Washburn, 608 Tampa St., J. G. Scott.

Fla., Tampa—Tampa Pine Products and Medicine Co., capital \$50,000, incorporated; C. T. Melvin, 2912 Villa Rosa Park, J. G. Mackey, 3824 Bay-to-Bay, W. C. Brooker, 700 Franklin St.

Fla., Tampa—A. J. Bowman, Studios, Inc., 119 S. Oregon St., capital \$15,000, chartered; A. J. Bowman, M. E. Bowman, W. W. Milby.

Fla., West Palm Beach—Merchandise—Prior Co., Inc., capital \$25,000, chartered; I. L. Chapman, Horace Van Metre, First American Bank Bldg., Alleen Johnston.

Fla., Winter Haven—Tar, Asphaltum, etc.—Central Florida Gas Corp., capital \$60,000, chartered; R. B. Wagner, W. H. Snow, J. W. Owen.

Ga., Waycross—Rogers-Ware County Grocery Co., incorporated; H. O. Rogers, L. P. Swinney.

Ky., Ashland—Henry Clay Hotel Co., increased capital, \$300,000 to \$400,000.

Ky., Ashland—Waterless Soap—Gatlin Bros. Chemical Co., Carter Ave., organized, Earle Gatlin, Austin Gatlin; establish plant.

Ky., Cynthiana—American Medicinal Co., capital \$15,000,000, incorporated, R. E. Wathen, Pres., Box 665, Louisville, Ky. (main office) reported, will combine number distilling companies for purpose of assembling liquor at few points to facilitate handling, etc., the companies involved are the Clear Spring Distilling Co., Davies County Distilling Co., Old Grand Distilling Co., Old Stone Distilling Co., Roswood Distilling Co., Peerless Distilling Co., E. H. Taylor, Jr. Co., Kentucky Distilleries and Warehouse Co., Hill & Hill Distilling and F. S. Ashbrook Distilling Co., all Kentucky; Baltimore Distilling Co., Russell and Alluvian St., and R. E. Wathen & Co., 702 Water St., both Baltimore, Md.; have not decided to operate plant at Cynthiana.

Ky., Hopkinsville—Hopkinsville Amusement Co., capital \$20,000, incorporated; R. L. Woodward, P. H. Bassett.

Ky., Lexington—Carruthers Hotel Corp., capital \$200,000, chartered; Roy Carruthers, T. P. Cagwin.

Ky., Louisville—Central Truck Depot, capital \$20,000, incorporated; H. C. Kelting, Cornell Pl., W. L. Gibbs, A. B. Burba.

Ky., Louisville—Hook Drug Co., John A. Hook, Pres., Third and Jefferson St., reported, leased three sites at Fourth St. and Broadway, one in Martin Brown Arcade Bldg., one in Hepburn Bldg., and one in Brown Hotel; establish drug stores.

Ky., Mayfield—Kevill Instrument Co., increased capital, \$50,000 to \$150,000.

Ky., Winchester—Merchants Warehousing Corp., chartered; D. T. Matlock, W. M. Wolcott, Fred Wolcott.

La., Arabi—St. Bernard Realty & Amusement Co., Inc., capital \$350,000, chartered; W. E. Walnwright, 501 Canal Bank Bldg.; Harley H. Dillinger, 3711 Delgado Ave., both New Orleans.

La., Hammond—Merchandise—Jitney Jungle Frail Co., Inc., capital \$15,000, chartered; Wm. A. Hood, Mark C. Frail.

La., Kaplan—Agnes Rice Mill Co., Inc., reported, organized to take over and operate Agnes Rice Mill of the Louisiana State Rice Milling Co.; Jules S. Motty, Pres.

La., Kaplan—J. W. Embry, Ch. Engr., Acadia-Vermilion Rice Irrigating Co., Inc. (Rice Irrigations and Growers), advises, following regarding Kaplan Rice Mill at Kaplan, cannot say at this time when bids will be let for work, have not been definitely decided whether it will be 1200 bbls., 12 hour mill or 1500 bbl. mill. 12-1

La., Lake Charles—C. Ford, Pres., Dixie Creameries, Inc., 2419 Southern Ave., Shreveport, La., reported, plans erecting \$100,000 creamery plant, construction to start about Jan. 1, 1928.

La., Monroe—Iron Mountain Bakery, Inc., capital \$25,000, chartered; W. A. E. Ivy, Monroe; John D. Lyles, J. V. Woodward, 264 Washington St., both Shreveport.

La., New Iberia—Merchandise—Lawtonia Co., Inc., capital \$9,000, chartered; J. B. Lawton, Jr., Lawrence Lawton.

La., New Iberia—Humpty Dumpty Stores, Inc., chartered; Louis Ochs, Alphonse Davis.

La., New Orleans—Ventilating Systems—E. K. Strahan, Inc., capital \$10,000, chartered; E. K. Strahan, 2340 Wirth Place; Leo J. Dagley, 1722 Short St.

La., New Orleans—Gallia Trading Co., Inc., capital \$25,000, incorporated; Richard E. Mire, 4528 Prytanla St., Walter G. Weiss, 3825 Prytanla St.

La., Thibodaux—Thibodaux Boiler Works, Inc., capital \$50,000, incorporated; Joseph A. Braud, Henry Braud.

Md., Baltimore—Eat-More Cake Co., Inc., 1118 Ward St., chartered; Wm. W. Sacks, Jack Cisenfeld, Herman B. Berkowitz.

Md., Baltimore—Traffic Lights—Charles D. Galtner, Police Commr., reported, plans installing automatic traffic lights at Walbrook Junction and North and Fulton Aves.; \$80,000 has been requested by Police Dept. in next year's budget for placing of automatic lights in various sections, also plans erecting traffic towers at Baltimore and Liberty St., Fayette and Liberty and on Lombard at Howard and Liberty St.

Md., Baltimore—Soda Water, etc.—Whistle-Derby Corp., 2438 Callow Ave., incorporated; Leon David, 6 E. Lee St., Lillian B. Lapides.

Md., Baltimore—Stationery—Oscar T. Smith & Son Co., 407 E. Saratoga St., capital \$100,000, incorporated; J. Kemp Bartlett, Jr. Robert D. Bartlett, J. Kemp Bartlett, all U. S. F. & L. Bldg.

Md., Baltimore—Raymond Hat Co., 507 E. Baltimore St., capital \$20,000, incorporated; Thomas A. Mowbray, Raymond S. Waters, Harry B. Purdy.

Md., Baltimore—Krause Bottling Co., 2120 Maryland Ave., acquired site at 2872 Reisterstown Rd.; will erect 3-story bottling plant; architect not selected.

Md., Baltimore—Office Supplies—W. U. Medford & Co., Inc., Lexington Bldg., capital \$25,000, chartered; Wm. U. Medford, H. S. Bokee, 122 W. Baltimore St.; J. L. Medford.

Md., Baltimore—Mercantile—The Brager Co., Eutaw and Saratoga Sts., incorporated; Philip Hamburger, Theodore R. Dankmeyer, Geo. R. Coleburn.

Md., Baltimore—Columbia Cloak Co., Inc., 200 W. Redwood St., capital \$10,000, chartered; Benj. Sykes, 2920 Violet Ave., Samuel Sachs, Hyman N. Wertz, 2406 Roslyn Ave.

Md., Baltimore—Contracting—Abbey Holding Corp., Apartment D-1, Eutaw Place and Brooks Lane, capital \$10,000, chartered; Claude T. Earley, Joseph A. McGee, Walter H. Flowers.

Md., Baltimore—Clinton Carpet Co., Calvert Bldg., chartered; R. Dorsey Watkins, Huntington, Cairns, John W. Avirett, 2d.

Md., Elkton—Whelan Tailors, Inc., capital \$10,000, chartered; E. V. Brown, Elkton, L. B. Vincent, Wilmington, Del.

Md., Glenburnie, Br. of Baltimore—Maryland Paper Mills, Inc., Wm. W. Ormsbee, Pres., let contract to Roberts, Fuqua & Murphy, 611 Southern Bldg., Washington, D. C., in conjunction with Geo. O. Selby of Maryland Paper Mills, 5 Hopkins Pl., Baltimore, for erection 1-story, 150x200-ft. paper bag mill; hollow tile, steel superstructure, and concrete, metal roof; work to start at once, no sub-contracts let; machinery for paper bag mill including equipment will cost approximately \$78,000, this equipment to be purchased by Wm. W. Ormsbee; will be 11 paper bag machines, make from 2 to 25 lb. capacity bags, weekly output 90 tons paper bags; in several months a pulp mill is to be erected, 150x200-ft., costing about \$38,000; equipment for this mill costing approximately \$22,000; eventually expect to manufacture all kinds paper; employ about 800 persons; authorized capital of Company \$2,000,000. 10-27

Miss., Corinth—Phenix Cheese Co., 345 Greenwich St., New York City, reported, contemplates establishing plant.

Miss., Greenwood—Mercantile—Greenwood International Co., capital \$50,000, incorporated; N. R. Paschal, Greenwood; W. M. Waters, 1093 Greenwood St., Memphis, Tenn.

Miss., Greenwood—Morgan-Hinson Dairies, J. C. Morgan, reported, plans erecting modern milk pasteurizing plant on Carrollton Ave.

Mo., Kansas City—Gleaner Combine Harvester Corp., S. H. Hale, Pres., Cottage and Hayward St., reported, started construction of new building to property in South Independence at Cottage Ave., new unit 527x100-ft. with addition of 120-ft. to present building, giving space of about 100,000 sq. ft.; P. J. Hanson, factory Supt.

Mo., Kansas City—Sleek-Warwick Paper Co., Fifth and Broadway, increased capital; \$60,000 to \$100,000.

Mo., Kansas City—Beaver Products Co., Inc., 1250 Crystal St., reported, has permit for \$18,000 plant addition, 1 and 2 stories, reinforced concrete; Geo. P. Reintges, builder, 2517 Jefferson St.

Mo., Poplar Bluff—Coca Cola Bottling Co., 421 Vine St., will erect 2-story, 100x110-ft. building, reinforced concrete, brick veneer, concrete floors, tile roof, cost about \$38,000, soon award contract. 12-1

Mo., St. Louis—American Packing Co., 3840 Garfield St., reported, has permit for \$20,000 brick warehouse, 1-story, 100x125-ft., construction by owner.

Mo., St. Louis—Laclede Steel Co., Arcade Bldg., reported, furnished 800 tons structural steel for erection factory for National Candy Co., V. L. Price, Pres., Federal Commerce Trust Bldg. 11-10

Mo., St. Louis—Burke Building and Development Co., capital \$100,000, incorporated; Morris M. Burke, 6232 Northland Ave.; I. Davis, 726 Westgate Ave.

Mo., St. Louis—Superior Paper Stock Co., incorporated; Louis Keetman, 1279 Oak Court Ave.; Harry A. Hern, 5545 Ashland St.; Harry Kramer, 5453A Vernon St.

Mo., St. Louis—American Metals Corp., reported, acquired property on Wabash Railroad at Goodfellow Ave., modern daylight type building, begun erection \$35,000 addition for office; manufacture Kaufman radiator shields.

Mo., St. Louis—Star Dyeing & Cleaning Co., 2515 N. Grand Boulevard, reported, let contract to Mississippi Valley Construction Co., 802 Chestnut St., for erection 2-story and part basement, plant and office building, 90x72-ft., brick and reinforced concrete; F. A. Ludewig, Archt., 3115 S. Grand St. 11-17

Mo., Springfield—Vending Machines—Cycle Vender Manufacturing Co., capital \$70,000, incorporated; Wm. J. Norris, 747 N. Main St., H. Ward Hicks, both Springfield; G. O. Robertson, Lebanon.

Mo., Warrenton—Ely & Walker Dry Goods Co., Twenty-second and O'Fallon St., St. Louis, reported, probably establish factory in connection with the Company's Lincoln Knit Goods Mills, Inc., will manufacture bathing suits.

Mo., Webb City—Ozark Shoe Mfg. Co., reported, plans enlarging plant by erecting additional floor to present building and constructing 2 story building.

N. C., Beaufort—Pottery Emergency Hospital, Inc., capital \$30,000, chartered; F. E. Hyde, C. R. Wheatly, Caroline Hyde.

N. C., Black Mountain—Transfer—Garland & Dinwiddie, Inc., capital \$50,000, chartered; Howard Garland, D. P. Dinwiddie, W. C. Honeycutt.

N. C., Charlotte—Blue Ribbon Bakery Co., capital \$25,000, incorporated; J. E. Winner, Charlotte; Dr. J. M. Harmon, Floyd, Va.; J. H. Woodward, Copper Hill, Va.

N. C., Edenton—Edenton Cash Grocery Co., capital \$100,000, incorporated; James Blount, Jack Bemby, Martha Stalling.

N. C., Kernersville—Merchandise—Gibson & Co., Inc., capital \$50,000, chartered; Edward Gibson, Fred N. Pegg.

N. C., Middletown—Middletown Grain and Seed Co., capital \$10,000, chartered; Thos. D. Davis, Mattie U. Davis, T. C. Speñcer.

N. C., Sylva—Meade Paper Co., Dayton, Ohio, reported, erect paper mill; purchased controlling interest in plant of Parsons Tanning Co.; will operate paper plant in conjunction with tanning plant.

N. C., Winston-Salem—Laundry—Carolina Wipers and Waste Co., incorporated; Frank Branner, Otis E. Tucker, 633 W. Second St., Moses Shapiro, Wachovia Bank Bldg.

Okla., Oklahoma City—City voted \$70,000 fire department equipment and building bonds; \$50,000 traffic control equipment bonds. See Financial News—Bond Issues Proposed. 11-3

Okla., Oklahoma City—C. J. Patterson Corp., 4050 Pennsylvania Ave., Kansas City, Mo., advises following in reference to the \$275,000 wholesale bakery to be built on Eighteenth St.; building was designed by the C. J. Patterson Corp. and will be built by the Fogel Construction Co., Reliance Bldg., Kansas City; equipment installed by C. J. Patterson Corp.

S. C., Aiken—Photography—Kirkland's,

Inc., chartered; W. Reid Kirkland, Mrs. Lou M. Silverhorne.

S. C., Clinton—Hardware and Electrical Supplies—Industrial Supply Co., capital \$20,000, incorporated; R. E. Ferguson, W. C. Oxley.

S. C., Florence—Mims & Co., reported, plans building plant in Shirley Manor; first unit will be equipped only for publishing company's catalogs, storage and office facilities; later plans another until building and install equipment for book manufacture; will file incorporation papers; capital \$50,000.

S. C., Greenville—Piedmont Refrigeration Co., capital \$10,000, incorporated; B. J. Blume, Eva F. Blume.

S. C., Greenville—Planters Fertilizer and Phosphate Co., J. Ross Hanahan, Pres., 143 E. Bay St., Charleston, reported, acquired Powhatan Guano Co.'s plant, including all buildings, machinery, tools, supplies, office equipment and use of name in all States except Virginia and North Carolina.

Tenn., Brownsville—John M. Jackson, Cashier, Brownsville Bank, and associates, reported, plans moving chicken hatchery from Stanton; J. T. Herring in charge.

Tenn., Chattanooga—Central Contracting and Supply Co., 32 E. Main St., incorporated; C. W. Whitaker, W. H. Ashmore, D. H. Boyd, Missionary Ridge; capital \$10,000.

Tenn., Chattanooga—Brainerd Dry Cleaning Co., incorporated; J. Goldstein, 206 Walnut St.; T. B. Simpson, J. C. Cliffe, Jr.

Tenn., Elizabethton—Happy Valley Homes, Inc., capital \$10,000, incorporated; M. E. Williams, J. E. Stack.

Tenn., Greeneville—Independent Tobacco Warehouse Co., capital \$15,000, incorporated; Charles W. Donaldson.

Tenn., Johnson City—Grocers Baking Co., J. William Miller, Pres., 1455 S. Seventh St., Louisville, Ky., reported, plans establishing branch plant, acquired 2-story and basement, 70x200-ft. building with an additional L; install about \$100,000 machinery; initial capacity from 1500 to 2000 loaves bread per hr.; also acquired business of Seavers Bakery; plant ready for operation about April 1, 1925; R. O. Seavers to become manager.

Tenn., Memphis—Form Construction Co., capital \$25,000, incorporated; J. G. Estes, 1020 Volentine St.; B. E. Buffalo, 658 East St.; E. J. Thomas, 860 N. Parkway.

Tenn., Memphis—Memphis Steam Laundry, Jefferson Ave. and Edgewood St., reported, let contract to Sam Malkin, 160 Union Ave., for erection laundry bundle room; E. L. Harrison, Archt., Fidelity Bank Bldg. 11-24

Tenn., Missionary Ridge—City plans installing additional fire-fighting equipment; H. L. Fisher, City Clerk. See Financial News—Bond Issues Proposed.

Tenn., Paris—W. P. Williams, Florence, Ala., reported, acquired The Paris Post-Intelligencer; will edit.

Tenn., Paris—Charles M. Jones, S. Dunlap St., will erect 57x120 ft. concrete and brick building, composition roof; cost about \$20,000 or \$25,000; lease part of plant to Paris Baking Co.; C. V. Krider, Archt. See Want Section—Building Materials and Supplies.

Tenn., Union City—Swift & Co., Chicago, Ill., reported, plans establishing cheese factory.

Texas—Amusement Park, etc.—Paul M. Williams, 462 E. Maxwell St., Lexington, Ky., Gen. Mgr. Dallas-Fort Worth Kennel Club, reported, interested in proposed amusement park to be operated in conjunction with the greyhound race track now under construction on the Dallas-Fort Worth pike near Grand Prairie; install amusement devices, construct 300x150-ft. bathing pool, open air theatre with seating capacity of 3,000 persons; estimated expenditure about \$750,000.

Tex., Austin—State Board of Health and Board of Control, reported, plans erecting State laboratory building to house the Pasteur Institute and other laboratories on E. Fifth St.; will probably have an appropriation of \$5,000 for construction.

Tex., Beaumont—J. W. Etter and others, owners of Kewpie Ice Cream Co., 301 Austin St., reported, acquired plant of Purdy Dairy Products Co., Pearl and Harrison St., will operate.

Tex., Brownsville—Model Laundry, Inc., reported, plans erecting \$18,000 laundry building, 1-story, 100x110-ft., hollow tile and reinforced concrete; date of opening bids not set; plumbing and electric wiring under separate contracts; Page Brothers, Archts.,

Austin Natl. Bank Bldg., Austin and Brownsville. 10-20

Tex., Corpus Christi—Members of Lions Club interested in installing playground equipment in South Bluff Park.

Tex., Corpus Christi—Harrison Auto Painting Co., 621 Sam Rankin St., capital \$10,000, incorporated; Fred J. Harrison, Burton Dunn.

Tex., Dallas—Dallas-Fort Worth Kennel and Amusement Park, capital \$125,000, incorporated; A. K. Powell, R. S. Hardesty, H. E. Cash.

Tex., Dallas—Grady Building and Operation Co., capital \$10,000, incorporated; Ray Grady, 2505 Maple St., W. H. Reid, Praetorian Bldg., M. C. Grady.

Tex., Dallas—Central Engineering and Supply Co., 2615 Latimer St., increased capital \$30,000 to \$40,000.

Tex., Denton—Jagoe Construction Co., increased capital \$50,000 to \$75,000.

Tex., El Paso—Phelps-Dodge Corp., 90 John St., New York, reported, considering establishing \$3,000,000 copper refining plant; employ about 500 to 1000 persons; taken option on 5580 acres in the Ascarate grant.

Tex., Galveston—City Comsn., reported, let contract to the Seagrave Corp., Columbus, Ohio, at \$22,500 for two new pumps for fire department. 11-17

Tex., Galveston—City received low bid from American-La France Fire Engine Co., Inc., Emira, N. Y., for fire-fighting equipment; J. E. Pearce, Mayor. 11-17

Tex., Houston—E. G. Maclay Co., Post-Dispatch Bldg., reported, begun erection of \$200,000 plant at Center, Wagoner, Harvard and T. C. railway tracks, for the Houston Showcase & Manufacturing Co., D. D. Orr, Pres., 3616 Washington St., has 1 1/4 acre site; main building 120x300-ft., with 300 feet of track on Houston and Texas Central lines; sprinkler system throughout; plans are for present building at Washington St. to be moved on Center St. near new structure, air dry sheds to be located on Wagner St. with 68x116-ft. cured lumber shed adjoining; also dry kiln 20x28-ft.; automobile shed will accommodate about 24 cars.

Tex., Houston—Marine Service, Inc., capital \$25,000, chartered; F. L. Stoutimore, J. R. Hart, W. R. McGinnis.

Tex., Marshall—Texas Natural Resources Corp., chartered under laws of New York, authorized capital \$1,000,000; Walter Clifford, Pres., 565 Fifth Ave., New York City; J. C. McKnight, Sec., reported purchased 7000 acres timber land, underlaid with lignite, on Panola County side of Sabine River, known as the Oden place; plans to develop number of commercial by-products of lignite.

Tex., Midland—Snowwhite Creameries, Sam Angelo, Tex., reported, plans establishing milk station; erect brick building on E. Wall St., install equipment; John Scharbauer, builder; Edward A. Nolan, Archt.; F. W. Long, Mgr. Mineral Wells.

Tex., Port Neches—Farmers Council of Port Neches and Nederland, Charlie Phillips, Pres., plans installing 6000-egg capacity incubator for commercial hatching; capacity to be increased.

Tex., San Antonio—Catarina Hotel Co. incorporated; J. E. Jarratt, C. H. Kearny, both Frost Natl. Bank Bldg.; Winston Wheeler.

Tex., Sulphur—Engineering, etc.—McKerrow & Oliver, capital \$25,000, incorporated; Keith McKerrow, W. L. Oliver.

Va., Gloucester—See Mining.

Va., Norfolk—Hardware—Wilson Supply Co., Inc., capital \$50,000, chartered; F. J. Wilson, Delgado Apt., A. F. Wilson.

Va., Norfolk—Clothing—The House of Worth, Inc., capital \$25,000, chartered; Jacob Leitman, 442 Main St., F. Sachs, both Norfolk; Aaron Leitman, New York City.

Va., Norfolk—Drugs, etc.—Perident Products Corp., capital \$50,000, chartered; R. G. Perry, F. J. Dean, Dickson Bldg.; C. L. Waterfield.

Va., Roanoke—Roanoke Amusement Center, Inc., capital \$10,000, chartered; C. L. Harris, 402 Salem Ave. S. W.; A. W. Wallace, Express Bldg.; Fred A. Woodson.

Va., Roanoke—Plumbing—Gus A. Possin, Inc., chartered; D. N. Davis, Roy A. Horton, Gus A. Possin, 38 Church Ave. W.

Va., Roanoke—Sunlight Bakery, Inc., Walter F. Davis, V.-Pres.-Mgr., 712 First St. S. E., reported, plans erecting new plant cor. Salem Ave. and Park St., 2-story, 112x102-ft., brick, stone trim; install latest improved machinery; bread ovens, etc., on first floor, cake department on second floor; McCormick Co., Archts., Pittsburgh, Pa.

Va., Winchester—Construction—Factory Buildings Corp., capital \$50,000, chartered;

H. B. McCormac, T. N. Good, J. S. Haldeman.

W. Va., Huntington—Huntington Engraving Co., 312 1/2 Eleventh St., incorporated; R. S. Wynn, James F. Gentry, E. Cyrus.

W. Va., Huntington—Benzol Cleaners and Dyers, Inc., capital \$25,000, chartered; Frank Cales, 340 30th St.; F. B. Haberie, N. S. Newton.

Motor Bus Lines and Terminals

Fla., Orlando—White Swan and Florida Motor Lines, reported, will operate through bus service between Chicago, Leesburg and Orlando.

Md., Rockville—Montgomery Bus Lines, Inc., capital \$50,000, chartered; Robert G. Hilton, Wm. E. Vielt, Geo. E. Lewis.

Miss., Lumberton—Varnado Bus Line, applied for permit to extend present bus line which runs from Mississippi-Louisiana state line to Lumberton to include Laurel via Purvis, Oakgrove, Hattiesburg, Moselle and Ellisville.

Miss., Natchez—R. E. Lancaster applied for permit to operate bus line between Natchez and Vicksburg, via Washington, Selma, Fayette, Harrison, Lorman and Port Gibson.

Motor Cars, Garages, Filling Stations

Ala., Birmingham—Title Realty Co., Bankers Bond Bldg., reported, let contract to Jack Barnett, 1210 S. Twentieth St., for filling station Tuscaloosa Ave. and Sixteenth St.; 1-story, 30x40-ft., brick and hollow tile.

Ala., Birmingham—Highland Garage, Inc., chartered; G. L. Gilliland, Gladys F. Gilliland.

Ala., Birmingham—Berry Chevrolet Co., incorporated; J. E. Lachy, H. P. Berry, 1072 Tribby Ave.

Ala., Mobile—Jett-Quill Construction Co., Bank of Mobile Bldg., received contract at \$6848 for erection garage for Mobile County, steel and corrugated iron, 1 story, 50x80 ft., concrete floor, corrugated iron roof; Mobile Steel Co., St. Joseph, furnishing steel. 11-24

Ala., Mobile—Wofford Oil Co., reported, plans erecting \$15,000 filling station Government and Hamilton Sts.; 1-story brick and stucco.

Ark., Fort Smith—Pierce Oil Corp., care of Allan Henderson, 101 Greenwood Ave., reported, let contract to Fred Martin, 405 1/2 S. Seventeenth St., for filling station, 1801 Rogers Ave.; install 6 pumps, etc. 11-17

Ark., Little Rock—Mrs. A. E. Townsend, 211 W. Second St., reported, plans erecting 1-story, 2 buildings for filling station and stores, brick, concrete floors, composition roof; cost about \$12,000.

D. C., Washington—Sisters of Notre Dame, 2909 Lincoln Rd. N. W., reported, has permit for erection of 1-story brick addition for private garage.

Fla., Jacksonville—Southern Tire Corp., capital \$25,000, chartered; S. L. Scruggs, Maryq Kincaid, E. A. Powell.

Fla., Miami—Century Auto Co., Inc., chartered; Chas. Winkelman, Gene Brodsky, Meyer-Kiser Bldg.

Fla., St. Petersburg—Deuel Brothers, Inc., chartered; C. F. Deuel, 800 18th Ave. N.; J. L. Deuel.

Ga., Atlanta—Seaboard and Southern Construction Co., Jacksonville, Fla., have been awarded general contract for construction of new Chevrolet assembly plant to be erected by General Motors Corp., Detroit, Mich., and 224 W. Fifty-seventh St., New York City. Estimated cost \$2,250,000 to consist of main building, 1-story, 800x320-ft., face brick, monitor steel roof; Fisher body unit 100x680-ft., of similar construction; parts building 40x204-ft., 2-story office building 40x204-ft.; Albert Kahn, Inc., Archt., 1004 Marquette Bldg., Detroit, Mich.; Nichols Contracting Co., 1281 LaFrance St., Atlanta, Ga., contract for excavation; Indiana Bridge Co., Muncie, Ind., contract for structural steel, main office genl. contr., Jacksonville, Fla., Atlanta office Henry Credy Hotel. 11-17

La., Lake Charles—Perkins Tire Co., Inc., 1100 Ryna St., reported, acquired 50x100-ft. site cor. Broad and Boulevard; plans erecting filling station.

La., New Orleans—J. B. Levert Land Co., 823 Perdido St., let contract to J. A. Haase, Jr., 916 Union St., for garage, St. Charles Ave. and St. Andrew St., 1-story, brick and hollow tile; cost about \$18,000; lighting, Globe Electric Co., 227 N. Rampart St.; plumbing, Thos E. Lynch, 2907 Magazine St.; brick masonry, J. J. Swiler Construction Co.; Andrew & Feltel, Archts., New Orleans Bank Bldg.

La., New Orleans—American Auto Service,

Inc., capital \$10,000, incorporated; Peter V. Young, 2829 Annunciation St.; R. G. Drown, 4610 Perrier St.

La., Ruston—Charles C. Alley and associates, reported, acquired 60x150-ft. site at Trenton and Alabama St.; plans erecting \$25,000 automobile building.

La., Ruston—Defreese Motor Co., Inc., capital \$25,000, chartered; E. C. Defreese, J. S. Harris.

La., New Orleans—See Miscellaneous Construction.

La., Shreveport—Bill Jenkins Auto Storage Co., Inc., chartered; Bill Jenkins, C. R. Braswell, 3459 Greenwood Rd.

Md., Baltimore—Checker Cab Service Co., Munsey Bldg., capital \$10,000, chartered; Wm. T. Connor, 633 Gorsuch Ave.; Joseph J. Rochlitz, Park Bank Bldg.; Florus Barry, 111 N. Luzerne Ave.

Md., Baltimore—Red "C" Oil Co., Keyser Bldg., plans erecting filling station corner Oak and Twentieth Sts.

Miss. Vicksburg—Porter Bros., 1413 Walnut St., advises, recently purchased property adjoining present garage, but owing to leases will not enlarge for some time. 12-1

Mo., Jefferson City—Dr. Herbert Taylor, 616 E. Capital Ave., reported, let contract to J. A. Hundley, 110 W. Miller St., for erection garage, 100x106 ft., structural steel, concrete floors, steel roof supports, electric wiring, steel metal window; cost \$15,000.

Mo., Kansas City—Jas. E. Taylor, Bldr., 318 Reliance Bldg., reported, has permit for \$21,000 service building, 2526 Grand St., for Scarritt Estate Co.; 1-story, 114x115 ft., brick.

Mo., St. Louis—E. Glueck, 914 N. Ninth St., reported, has permit for alteration to garage at 3715 W. Pine St.; cost about \$17,000; C. B. McCormack & Son, Bldrs., 806 Columbia Bldg.

N. C., Charlotte—City Commrs. will erect \$50,000 municipal garage at Seige Ave. and Seaboard Air Line railway tracks; preliminary plans call for building 65 ft. wide, from 300 to 400 ft. long; L. D. Southerland, Archt., 209 Dilworth Rd. E. 12-1

N. C., Charlotte—Dorris-Greene Motor Co., Inc., 523 S. Tryon St.; J. B. Dorris, V.-Pres.-Gen. Mgr., leased present building and will use temporarily as headquarters, later on probably erect building. 12-1

N. C., Charlotte—Mrs. Nellie T. Whitted, 408 W. Fifth St., let contract to Brice Realty Co., Const. Dept., 4 E. Fourth St., at \$25,000 for erection 1-story, 50x200-ft., automobile showroom and shop; brick, cement floor in shops, tile floor in office; built-up tar and gravel roof; install plumbing, steam heat, electrical work all included in contract. 11-24

N. C., Winston-Salem—Home Builders Co., 315 W. Fourth St., will erect \$13,500 building to be known as Franklin Auto Show Room and Garage, 1-story, 50x100-ft., brick and steel, cement floor, built-up roof, install steam heating plant; Carolina Steel and Iron Co., furnish all steel trusses, etc.; G. L. Levisque, Archt., 420 W. Fourth St.

S. C., Clio—Lipscomb Motor Co., capital \$10,000, chartered; has 2-story, 50x195-ft. building, now being remodeled; will install complete shop equipment for repairing and servicing automobiles, trucks and tractors. See Want Section—Machinery and Supplies.

S. C., Greenville—Automobile Accessories—Standard Battery Corp., capital \$10,000, chartered; L. L. Love, J. H. Thompson, Vera M. Thompson.

S. C., Mullins—Automobile Supplies—J. E. Harrelson & Co., incorporated; J. E. Harrelson, T. E. Dore.

Tenn., Chattanooga—E. G. Henderson has permit for \$10,000 garage, 1-story, brick construction.

Tenn., Chattanooga—Century Co., 1123 Chestnut St., let contract to Mark K. Wilson Co., Tennessee Electric Power Bldg., for erection garage, containing 40,000 ft. floor space, work under way, to be completed by Feb. 1, 1928; C. E. Bearden, Archt., First Natl. Bank Bldg. 4-14

Tenn., Nashville—Foster & Creighton Co., 4th and 1st Blvd., reported, has contract at \$66,580 fore erection garage for Davidson County Highway Comsn. cor. S. Fifth and Hitt St., East Nashville; 101x220-ft., 1-story, fireproof; contain parking space for 65 trucks, space for machine, blacksmith and repair shops, also office for County Engr. and Supt. of Highways. 11-17

Tex., Alice—Bennett & Nayer let contract to J. A. Smith for erection garage and sales-

room; tile and stucco; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 11-17

Tex., Houston—South End Service Station Corp., D. C. Hutchison, Jr., Pres., 4101 Main St., reported, acquired site cor. McGowan and Louisiana St., 50x100 ft., erect filling station.

Tex., San Antonio—Dr. T. T. Parker, 314 Kampman Bldg., reported, let contract to V. L. Rasmussen, 560 E. Cincinnati Ave., for \$14,000 garage on Soledad St., stone tile. 11-17

Va., Clintwood—Cumberland Motor Co., Inc., capital \$13,000, chartered; Fred G. Gray, Chas. Perkins, Mark French.

Tex., Coleman—Joe McCarthy, reported, has contract for building on E. Live Oak St., to be occupied by Adams Oil Co.

Tex., Corpus Christi—Harrison Auto Painting Co., capital \$10,000, incorporated; Fred J. Harrison, Hillcrest Addition; Nannie L. Harrison, Burton Dunn, 805 S. Broadway.

Tex., Falfurrias—McIntyre Brothers, reported, erect 1-story filling station and lunch room, concrete tile and stucco, reinforced concrete; receive bids Dec. 14; Page Brothers, Archts., Austin Natl. Bank Bldg., Austin and Brownsville.

Tex., Fort Worth—Brake Service Co., incorporated; Geo. R. Lupton, J. M. McGinley, 1200 W. Rosedale St.; Homer F. Belew, 2217 Lipscomb St.

Tex., Houston—South End Service Station incorporated; D. D. Hutchinson, Jr., C. H. Lentsch, 4101 Main St.; W. S. Tyner.

Tex., San Antonio—Joske Bros. Co., Alamo Plaza, reported, plans erecting 1-story garage and automobile repair shop on Bonham St.

Tex., San Antonio—Ruby Motor Freight Line, 318 Bowie St., reported, acquired property at Cedar and Stieren St.; erect 2-story, 32x160-ft. building.

Tex., Fort Worth—West Texas Star Co., 200 Commerce St., organized; Ward Lederer, Pres.; will be distributors of Star Motor Co. in Fort Worth and West Texas.

Va., Danville—Tompkins Chevrolet Sales Corp., reported, plans \$25,000 sales building on Loyal and Wilson St., 1-story, fireproof; structure to be erected by Watson, Leigh and Crews, owners of property.

Va., Richmond—Old Colony Tire Corp., capital \$10,000, chartered; W. A. Forest, Richmond; R. E. Sheldon, R. C. Bollinger, Akron, Ohio.

Va., Richmond—Auto Ramps Corp., capital \$50,000, chartered; M. L. Waddill, David J. Mays, Sherlock Bronson, both Law Bldg.

Railway Shops and Terminals

W. Va., Williamson—Norfolk and Western Ry. Co., W. P. Wiltsee, Ch. Engr., Roanoke, Va., reported, expending \$10,000 in improvements to unloading dock at Williamson yards.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Ashville—State Highway Commn., Woolsey Fennell, Highway Director, Montgomery, plans repairing 32 mi. Gadsden-Birmingham Highway in St. Clair County, with penetration asphalt; W. S. McCalla, State Highway Engr.

Ala., Birmingham—City Commn., Eunice Hewes, Clk., plans paving Third Ave., west to fair grounds; A. J. Hawkins, City Engr.

Ala., Birmingham—City, Eunice Hewes, Clk., considering paving 1 mi. Third Ave. West to State Fair Grounds; A. J. Hawkins, City Engr.

Ala., Gadsden—City plans laying cement curbs, gutters and sidewalks on various streets. Address City Clk.

Ala., Mobile—City, Harry T. Hartwell, Commr., plans widening and otherwise improving Dauphin St., from Wilkinson St.

Arkansas—State Highway Commn., Dwight H. Blackwood, Chmn., Little Rock, receives bids Dec. 15 for road and 5 bridges and box culvert; Miller County—10 mi. grading and drainage structures, Texarkana-Sulphur River road, State Highway No. 71, Sec. 2, 117,547 cu. yd. excavation, 79,581 lb. reinforcing steel; Boone County—5 reinforced concrete bridges, slab, deck girder and arch design, one each 60, 67 and 121 ft.; two each 70 ft.; 4x52 ft. long reinforced concrete box

culvert, 176, 812 lb. reinforcing steel; plans on file.

Arkansas—State Highway Commn., Dwight H. Blackwood, Chmn., Little Rock, receives bids Dec. 15 for grading and drainage structures on 3 roads: Washington County—10½ mi. Fayetteville-Prairie Grove road, State Highway No. 45, Sec. 4, 87,992 cu. yd. excavation and borrow, 63,295 lb. reinforcing steel; Logan County—2½ mi. Booneville-State Sanatorium road, State Highway No. 116, Sec. 1, 44,440 cu. yd. excavation and borrow, 22,767 lb. reinforcing steel; Hot Spring County—12 mi. gravel surfacing, Bismarck-North and South road, State Highway No. 7, Sec. 5, 112,121 cu. yd. excavation and borrow, 86,843 lb. reinforcing steel; plans on file.

Ark., Little Rock—Pulaski County, Judge Newton, plans creating Road Improvement Dist., to pave 10 mi. Twelfth St. pike, from end of present paving, west of city limits to Fletcher Creek.

Ark., Warren—City, reported, considering creating Road Improvement Dist. No. 5, to pave street from North Ward School to end of pavement on Warren-Pine Bluff Highway. Address Board of Improvement, G. R. Blankenship.

Fla., Bradenton—City considering paving 6 streets, and northern extensions of Ninth, Twelfth and Thirteenth St., boulevard along new waterfront, and Fourteenth and Thirteenth Ave., etc.; Roy K. Van Camp, Commr. of Public Works.

Fla., Hollywood—City, F. J. Kester, Acting City Clk., receives bids Dec. 12 for about 79,096 lin. ft. curbing, 1,429,790 sq. ft. sidewalks and 589,656 sq. yd. rock paving in Highway Improvement Districts No. H-2 to H-24, inclusive; plans on file and from City Engr.

Fla., Orlando—Orange County Commrs., B. M. Robinson, Clk., receives bids Dec. 12 for earthwork, drainage structures, rock base, various types of surfacing, 45,000 cu. yd. dredge fill, bridge, on 46.5 mi. road in county; plans from Chas. A. Browne, Ch. Engr.

Fla., Pensacola—Escambia County Commrs. receive bids Dec. 20 for 22 mi. grading and hard surfacing Molino-Atmore Highway, from Pensacola-Flomaton Highway, near Molino to Alabama line south of Atmore; W. E. Wheat, County Engr.

Fla., Pinellas Park—Town Commrs. plan street improvement. See Financial News—Bond Issues Proposed.

Fla., Stuart—Martin County Commrs. plan 23 paved, macadamized or other hard surfaced highways: Britt Road; Broadway; Duncombe Link Road; East Fourth Street, and Riverside Drive; Gaines Highway, from South Fork Bridge to end of 9-ft. hard surface; Gaines Highway, from S. A. L. R. R. to Lake Okeechobee; Jensen Beach Road; Locks Road; Martin Highway, about 4 mi.; 3 mi. Martin Highway; Monterey Road; Murphy Road extension; Monrovia Road; Olympia Beach Road; grading, etc., Olympia Beach Road; Salerno Beach Road; Sewall's Point; Tick Ridge; Warfield Highway; Jupiter; Welch Link; Jensen Road west, oil and slag; oil hard surfaced roads; Dixie Highway Link. See Financial News—Bond Issues Proposed.

Fla., West Palm Beach—State Road Dept., F. A. Hathaway, Chmn., Tallahassee, plans receiving bids about Jan. 1 to improve State Road No. 25, Cross-State Highway, in Palm Beach County, from West Palm Beach to Fort Myers, and in other counties; J. L. Cresap, State Highway Engr.

Fla., West Palm Beach—State Road Dept., F. A. Hathaway, Chmn., Tallahassee, receives bids Jan. 10 for State Highway No. 4, south from West Palm Beach to county line; J. L. Cresap, State Highway Engr.

Georgia—State Highway Commn., John N. Holder, Chmn., Atlanta, receives bids Dec. 21 for 11 roads and 2 bridges: Brantley County—gravel surface, Waycross-Brunswick road, estimated cost \$80,000; Houston County—paving on Perry-Cordele road, \$200,000; Gilmer County—grading and base, Elijah-Blue Ridge road, \$175,000; Pickens and Dawson Counties—Jasper-Dawsonville road, \$200,000; Walker County—Lafayette-Summersville road, \$80,000; Jackson County—bridge, \$60,000; Banks County—bridge, \$20,000; Alma-Piney Bluff road, paving, \$450,000; Rabun-Habersham Counties, paving, \$550,000; Newton County—grading, \$60,000; Laurens County—Dublin-Adrian road, \$75,000; Snellville to Logansville road, grading, \$65,000; Dawson County—grading, \$85,000; cost \$2,400,000.

Ga., Baxley—City, Gladys Holton, Clk., receives bids Dec. 20 for 27,134 sq. yd. asphalt or concrete pavement, 9788 sq. yd. concrete

sidewalks, 15,700 lin. ft. combined concrete curb and gutter, 1670 lin. ft. 12 to 24 in. concrete or V. C. pipe storm sewers, 29 brick catch basins; plans on file or from O. H. Lang, Const. Engr., Moultrie; E. E. Miles, Mayor.

Ga., Commerce—City, A. J. Hood, Mayor, plans \$100,000 street paving; Nisbet Wingfield, Engr., Augusta. 11-3

Ga., Milledgeville—City, J. H. Ennis, Mayor, plans paving Liberty St., from West Hancock St. to Central Depot.

Ga., Summerville—Chattooga County Board of Roads and Revenues plan lower route for Dixie Highway into Summerville: From present road at top of Taylor's Ridge, down mountain to present road again near Wayside Schoolhouse, then across Chattooga River to point above Hinton Bridge, then by Summerville High School, into Summerville, at Commerce St.

Ky., Blackey—City, reported, plans expending \$50,000 on street improvements. Address The Mayor.

Ky., Hazard—Perry County, reported, plans 3 roads: Connecting Links from Lower Kentucky River, and Maces-Leatherwood Creek sections to connect at Jeff with main highways; 20 mi. Hyden road, Leslie County, connecting Hyden with Ky.-Va. Highway. Address County Commrs.

Ky., Hazard—Perry County Court, reported, let contract Dec. 16 for 6 mi. Ky.-Va. Highway in county. Address County Commrs.

Ky., Whitesburg—Letcher County, reported, plans hard surfacing 10 mi. Ky.-Va. Highway from Seco to Whitesburg.

La., Bastrop—Morehouse Parish Police Jury created Road Dist. No. 3, including Bastrop and Mer Rouge, to build highway from east of Mer Rouge to Boeuf River to connect with highway to be built by West Carroll Parish; Lester White, Parish Engr. 10-27

La., Gretna—Louisiana Highway Commn., Frank T. Payne, Chmn., Baton Rouge, receives bids Jan. 3 for 1.575 mi. streets in Westwego, Jefferson Parish, State Route No. 2, from east corporate limits of Westwego, to Sala Ave., along Sala Ave. to intersection with Mississippi River levee; 20 and 32 ft. wide, concrete base, bituminous concrete (Modified Toppa type), Warrenite bitulithic, or sheet asphalt wearing surface, or concrete pavement; plans on file; Nicholls W. Bowden, State Highway Engr.

La., Jena—Louisiana Highway Commn., Frank T. Payne, Chmn., Baton Rouge, receives bids Jan. 12 for 7.086 mi. Jena-Nebo-Rogers Highway, LaSalle Parish, from present gravel road, Routes 6 and 19, Jena, to Nebo; plans on file; Nicholls W. Bowden, State Highway Engr.

La., Many—Louisiana Highway Commn., Frank T. Payne, Chmn., Baton Rouge, receives bids Jan. 12 to furnish gravel and build 6.921 mi. road, Sabine Parish, from point east of Noble to gravel road under construction east of Converse; plans on file; Nicholls W. Bowden, State Highway Engr.

La., Monroe—Ouachita Parish Police Jury plans 8½ mi. road from Parker Dam to Ouachita River, below Louisiana Training Institute. Address Parish Police. See Financial News—Bond Issues Proposed.

La., New Roads—Louisiana Highway Commn., Frank T. Payne, Chmn., Baton Rouge, receives bids Dec. 29 to furnish gravel and build 20.312 mi. Anchor-False River-Hermitage Highway, Pointe Coupee Parish, from present gravel road at Anchor, around inside of False River, to intersection with present gravel road at Hermitage; plans on file; Nicholls W. Bowden, State Highway Engr.

La., Winnfield—Louisiana Highway Commn., Frank T. Payne, Chmn., Baton Rouge, receives bids Jan. 3 to furnish gravel and build 7.023 mi. Winnfield-Colfax Highway, Winn Parish, from L. R. & N. crossing, Atlanta, to Winn-Grant Parish line, north of New Verda; plans on file; Nicholls W. Bowden, State Highway Engr.

Md., Baltimore—City, Board of Awards, receives bids Dec. 14 to grade, curb and pave with 13,430 sq. yd. sheet asphalt on concrete base, on streets in Cont. 444; plans on file; Nathan L. Smith, Highways Engr.; C. F. Goob, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore—Board of Estimates approved plans for asphalt on Overland Ave., Liberty Heights to Pimlico Circle, and Longwood St., Gwynns Falls Parkway to Carlisle Ave., cost \$61,500; Nathan L. Smith, Highways Engr.; C. F. Goob, Ch. Engr.; Wm. F. Broening, Mayor.

Miss., Kosciusko—Attala County Board of Supvrs. plan road building in Beats 1, 2, 3, and 4; graveling road from Kosciusko to

Holmes County line at Goodman. See Financial News—Bond Issues Proposed.

Miss., Meridian—Lauderdale County Board of Supvrs. receive bids Dec. 21 for 7.84 mi. gravel Meridian-Louisville Road, Beat 3, via Gum Log Church and Schuctown; 50,000 cu. yd. excavation; plans on file and from J. T. Pinkston, County Engr.

Miss., Pascagoula—Jackson County Board of Supvrs., K. W. Burnham, Pres., plans improving River road, between Moss Point and Pascagoula; widen road to 24 ft., build concrete structures, to replace wooden culverts and bridges, and surface road.

Mo., Clayton—City, Alfred H. Kerth, Clk., receives bids Dec. 13 for sidewalks on DeMun St., from Hillcrest suburb to Wydown; Hanley, Clayton to Wydown; improve roadway of Wydown, west of Brentmoor.

Mo., Jefferson City—State Highway Dept. plans letting contract in near future to pave U. S. Route 50, from Jefferson City to country club in Cole County; T. H. Cutler, State Highway Engr. 12-1

Mo., Kansas City—City, Matthew S. Murray, Director of Public Works, plans widening Sixth St. to 60-ft., between Oak and Cherry, and opening 70-ft. strip, between Cherry and Holmes.

Mo., St. Louis—City, Board of Public Service, plans widening Theresa Ave. to 80 ft., from Market St. to Bell Ave., cost \$711,000; W. W. Horner, City Engr.

N. C., Charlotte—City, Robert L. Brown, Commr. of Public Works, plans widening N. Graham St. to 32 ft. from West Trade St. to bridge beyond West Twelfth St.

N. C., Charlotte—City, Robert L. Brown, Commr. of Public Works, plans widening East Seventh St., Trade St. to Central Ave.

N. C., Raleigh—North Carolina State Highway Commn., and South Carolina Highway Commn., Columbia, reported, contemplates further improvement of LaFayette Highway, from Raleigh to Savannah, Ga.

N. C., Wilmington—State Highway Commn., Raleigh, plans rebuilding Carolina Beach Highway, from city to southern beaches, approximate cost \$250,000; hard surfacing 14 mi. road between Town Creek and Supply, Brunswick County; Lester Ames, Ch. Highway Engr.

N. C., Winston-Salem—City, Thomas Barber, Mayor, received low bid from Powell Paving Co., Wachovia Bank Bldg., at \$16,886, to pave Longview Drive, from Waughston St. to spur track of Winston-Salem Southbound Ry., 5900 sq. yd. sheet asphalt, concrete gutters. 12-1

Okl., Muskogee—City, A. F. McCarr, Mgr., considering resurfacing drive around Honor Heights, and to Forty-eighth St., at Stem's Beach; 20 ft. wide concrete slab, or 30 ft. wide Troy gravel; Hugh Dixon, City Engr.

Okl., Oklahoma City—E. M. Fry, Mgr., plans widening Walker Ave., between Grand and Reno Ave.; opening Walker St., from Grand to Main St.; B. M. Hart, City Engr.

Okl., Oklahoma City—Oklahoma County Commrs. plan receiving bids for 1 mi. test paving along Sixty-third St., eastward from junction with pavement to Edmond; Ed. Sheldon, Chmn.

S. C., Orangeburg—Orangeburg County Highway Commn., H. E. Moore, Clk and Atty., plans letting contract after Mar. 1 for 22 mi. Route 6, from point near town of Woolford to Orangeburg; L. C. Boone, County Engr. 11-17

Tenn., Dyersburg—Dyer County Pike Comm. No. 3, reported, plans about 30 mi. graveled road; L. C. Brayton, Engr.

Tenn., Fayetteville—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, reported, plans repairing State road between Fayetteville and Alabama State line.

Tenn., Huntingdon—Carroll County Quarterly Court plans improving 28 roads: 13.8 mi., from Huntingdon to county line, via Long Rock and Mixie; 9.7 mi., from Highway No. 44, near Hilliard's School, through Westport to Benton County line; 19.8 mi., from B. & M., through Buena Vista and Dollar to connect with county road No. 2, through Westport; 14.3 mi., from Highway 44, near Clarksburg, through Yuma to county corner; 11.2 mi., from B. & M. at Hollow Rock, through Vale to intersect county Highway No. 1, at Rice's store; 10.9 mi., from McKenzie to Shiloh and Liberty churches, Milam's store and easterly to No. 1, near Mixie; from Highway No. 22, to Cazort's store on Paris Road, then north to No. 6, near Liberty Church; 16.9 mi., from B. & M., south of Huntingdon, to Palmer's Shelter Church, to Buxter and Jumbo, and to crossroads to intersect No. 9, 7 mi. from Highway No. 44, Clarksburg,

westward on Clarksburg and Jackson Road to Henderson County line; 13 mi. from McKenzie, through Third Dist. to Trezevant; 12 mi., from McKenzie, by King's levee to intersect No. 77, near McLemoresville; 4 mi. from Highway No. 1, near Hollow Rock, to Buena Vista; 7 mi. from B. & M., near Taylor Field, following Lexington to Milan Road, to Lavinia and county line; 10.3 mi. from McLemoresville, to Old Stage Road, then to Porter & William's store, via Parker's store; 7.8 mi. down Old State Road, from County Highway No. 1, to Clarksburg and Milan Road, near Caroline Olivers; 4.5 mi., from B. & M., at Rosser, north to intersect Road No. 1, near Hughey Vick's; 5 mi. from long bridge north side Sandy River, across Mackie's Bridge to Benton County line.

1 mi., from corner of Stonewall St., McKenzie, north to Henry County line; 3 mi., from Liberty Church, Road No. 6, to Lankford's store; from Howley's store on B. & M., through Terry's to State Aid Road, from Whitthorne to Cedar Grove, near Shiloh Church; 3 mi., from Lavinia to Madison County line; 3 mi., from Whitthorne to Lavinia; 3 mi., from near Long Rock Church, via Hastings's store, to intersection of County Road No. 1; 5 mi., from Atwood to intersection of County Aid Road, near Shiloh Church; from Benton County line, Robertson Community, to intersection B. & M., near Bruceton; 5 mi., from Atwood, northwest to Walker Road, and east to Trezevant; from Trezevant to intersect No. 11 at Baxter Hill; 7 mi., from Trezevant to Hally Leaf and Gibson County line; plans receiving bids in Dec. to grade and drain Highway No. 44. Address County Commrs.

Tenn., Johnson City—City and Washington County Commrs., Jonesboro, reported, plan 5 mi. Glanzstoff Blvd., from Johnson City to Glanzstoff and Bemberg plants in Happy Valley, from present end of East Main St. through Keystone Field to Broadway, then to incorporate limits of Johnson City on to Carter County line to incorporate limits of Elizabethton. Address City Clk. and County Commrs. 6-16

Tenn., Missionary Ridge—City, H. L. Fisher, Clk., plans improving streets; J. F. Holbert, Mayor. See Financial News—Bond Issues Proposed.

Tenn., Murfreesboro—Rutherford County Court, Charles N. Haynes, Chmn., plans Murfreesboro-Manchester links of Dixie Bee line highway; will sell bonds.

Tex., Alice—Jim Wells County, R. R. Mullen, Judge, plans 9.79 mi. first course caliche base, Highway No. 12-A, from Alice to Duval County line; estimated cost \$56,000; bituminous topping later; Joe Estill, Res. Engr.

Tex., Angleton—Brazoria County, Scott Gaines, Judge, plans grading, bridge and concrete paving, 10.5 mi. road, from intersection with Highway No. 58, at Lutens Ferry, Brazoria County, to intersection with Highway at Brazoria-Matagorda County line, via Sweeney, West and Hacema; estimated cost \$351,000.

Tex., Benjamin—Knox County, O. W. Lee, Judge, plans road building in Road Dist. No. 5; cost \$280,000. See Financial News—Bond Issues Proposed.

Tex., Benjamin—Knox County, O. W. Lee, Judge, plans 14 mi. grading, bridge and concrete pavement, Highway No. 30, from Baylor County line to Hoshell County line, Road Dist. No. 2-A; estimated cost \$405,000.

Tex., Big Spring—City, City Mgr. Monton, receives bids Dec. 20 for about 40 blocks street paving.

Tex., Brackettville—Kinney County, John H. Stadler, Judge, receives bids Dec. 19 for 2.66 mi. Rocksprings road connecting Brackettville with Rocksprings; W. H. Hutson, Engr.

Tex., Breckenridge—City Commn. plans paving 9 blocks North Rose St. with asphalt topping, with present surfacing as sub-base.

Tex., Brownsville—Cameron County, Oscar C. Dancy, Judge, plans 8 mi. grading, bridges and concrete pavement, Highway No. 96, from point near Combes to Willacy County line; estimated cost \$350,000; State Highway Commn. R. S. Sterling Chmn., Austin, allocated 50% State Aid conditionally, to Cameron County, for grading and bridges, Highway No. 96, from point 3.5 mi. north of Harlingen to Willacy County line; estimated cost \$150,000; W. O. Washington, Engr.

Tex., Brownsville—Cameron County, Oscar C. Dancy, Judge, plans 18 mi. 18-ft. Bates type concrete pavement, Highway No. 100, from Barreda to Point Isabel; estimated cost \$500,000; N. O. Washington, Engr.

Tex., Center—Shelby County Commrs. plan widening Highway No. 8, from Center to

Shelbyville, and from Center to Tenaha, 20 ft.

Tex., Coleman—City, E. P. Scarborough, Mayor, plans street paving; cost \$50,000. See Financial News—Bond Issues Proposed. 11-24

Tex., Edinburg—Hidalgo County Comms., plan about 45 mi. paved road, in Road Dist. No. 6, including Taylor Blvd., Mission section, numerous feeder roads to be paved and graveled; cost \$1,000,000. See Financial News—Bond Issues Proposed.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans street improvement. See Financial News—Bond Issues Proposed. 11-3

Tex., Groveton—Trinity County, C. H. Kenley, Judge, plans 43 mi. concrete, Highway No. 94, from Trinity to Angelina County line; estimated cost \$1,087,500.

Tex., Houston—City, George Woods, Mgr., considering improving Yale St., Washington to Nineteenth St.; J. C. McVea, City Engr.

Tex., Houston—City, George Woods, Mgr., received low bid from Smith Bros., American Natl. Bank Bldg., Dallas, at \$112,191, for brick paving, and \$88,854 for asphalt paving, on South Harbor Drive.

Tex., Houston—Harris County Comms., Court, Norman Atkinson, Judge, receives bids Dec. 21 for grading and structures on Main Street Road, from Bellaire Road to first railroad crossing; A. J. Wise, Engr.

Tex., Houston—City, George Woods, Mgr., received low bids from Uvalde Rock Asphalt Co., Frost Natl. Bank Bldg., San Antonio, at \$88,827 for asphalt paving on Canal St., Houston Belt and Terminal tracks to Seventy-fifth St.; from Smith Bros. Construction Co., American National Bank Bldg., Dallas, at \$108,473, for brick.

Tex., Houston—Harris County Comms., Norman Atkinson, County Judge, receives bids Dec. 19 for 2 roads: 19.75 mi. surfacing, West Montgomery Road, Precinct No. 4; grading, drainage structures, and crushed rock base, Lawndale Ave.; W. L. Washburn, County Auditor. 11-10

Tex., Houston—City, George Woods, Mgr., may expend \$500,000 to complete Navigation Blvd., connecting with business section at Franklin Ave. and Emanuel St.; will build subway under grade crossings of I.-G., N. G. H. & H., Houston Belt & Terminal and Santa Fe tracks, cost \$250,000; near subway, boulevard will follow Runnels St. to Marsh, under tracks at Commerce St., in 50-ft. underpass; along bayou to Sixty-ninth St. bridge, then back toward center of city; 90 ft. wide, two 30-ft. driveways, 30-ft. esplanade; J. C. McVea, City Engr.

Tex., Jourdanton—Federal Government appropriated \$210,000, matching equal appropriation by State of Texas, to pave Highway No. 9 between Pleasanton and Three Rivers, Atascosa County; Earl D. Scott, County Judge; Jas. V. Cunnate, Engr.

Tex., Jourdanton—Atascosa County, Earl D. Scott, Judge, plans 25.7 mi. gravel surfacing, rock asphalt top road; estimated cost \$180,275; Jas. V. Cunnate, Engr.

Tex., Kaufman—Kaufman County, Chas. Ashworth, Judge, plans 6.3 mi. grading, bridges and gravel surfacing, Highway No. 34, from Trinity River to Road Dist. line; estimated cost \$57,000.

Tex., Lefors—Gray County, T. M. Wolfe, Judge, plans 17.5 mi. grading, bridges and concrete or asphaltic concrete pavement, Highway No. 75, from Wheeler County line to Donley County line; estimated cost \$614,130; C. L. Hasie, Engr.

Tex., Marlin—State Highway Comm., R. S. Sterling, Chmn., Austin, plans improving State Highway No. 6, south of Marlin, between Big Creek and Robertson County line; E. C. Woodward, Div. Eng.; Walter S. Hunnicut, Falls County Judge; R. A. Thompson, State Highway Engr.

Tex., Port Lavaca—Calhoun County, E. M. Tanner, Judge, Refugio County, T. W. McGuill, Judge, plans grading and bridges on Hug-the-Coast Highway from Long Mott to Guadalupe River; estimated cost \$199,372; bridge across Guadalupe River; estimated cost \$20,000.

Tex., Quanah—Hardeman County, J. E. Wiley, County Judge, plans 6.708 mi. grading and bridges, Highway No. 5, from Childers County line; estimated cost \$20,780; John B. Nabors, County Engr.

Tex., Rio Grande—State Highway Comm., R. S. Sterling, Chmn., Austin, reported, considering grading 17 mi. border highway from Roma to Zapata County line; R. A. Thompson, State Highway Engr.

Tex., San Angelo—Tom Green County, J. T. Mathison, Judge, plans 9.75 mi. grading and bridges, Highway No. 9, Carlsbad to

Coke County line; estimated cost \$82,000; T. J. Kelly, Engr.

Tex., Sanderson—Terrell County, G. J. Henshaw, Judge, plans 1.5 mi. grading and bridges, Highway No. 82, Big Hill Project; estimated cost \$43,158; John Stovall, Engr.

Tex., Waxahachie—Ellis County, H. R. Stovall, Judge, plans 5 mi. gravel surfacing, Highway No. 68, Midlothian to Dallas County line.

Tex., Waxahachie—Ellis County, H. P. Stovall, Judge, plans 4.664 mi. grading, bridges and 18-ft. concrete pavement, Highway No. 6, from Italy Dist. to Hill County line; estimated cost \$180,746; W. A. Spalding, Engr.

Tex., Wellington—City and Collingsworth County Court plan widening street 24 ft. Address City Clk. or County Comms.

Va., Princess Anne—State Highway Comm., H. G. Shirley, Chmn., Richmond, considering 8¼-mi. highway from Cape Henry to Ocean View, on Alternate A. route, with 1½-mi. bay front; S. C. Mullen, Ch. Highway Engr.

Va., Richmond—City, R. Keith Compton, Director of Public Works, plans opening Canal St. to Virginia.

Va., Rockmount—State Highway Comm., H. G. Shirley, Chmn., Richmond, considering hard surfacing sand clay road, between Ranoke and North Carolina line, from Snyder'sville toward Rockmount, and from Snyder'sville to Fieldale; C. H. Mullen, Ch. Engr.

W. Va., Bluefield—City, Mgr. Bennett, plans sidewalks on Clifford St. west of Bland St.

W. Va., Clarksburg—Harrison County Comms., Court, L. Loudin, Clk., receives bids Dec. 13 for 1 mi. stone base on Jones Run road, from intersection with Nolan's road southwest of Lumberport, Eagle Dist.; plans from Harry E. Stealey, County Road Engr. 11-24

Contracts Awarded

Alabama—State Highway Comm., Woolsey Fennell, Chmn., Montgomery, let contracts for 5 roads, bridges and bridge approach: Morgan County—south approach to Tennessee River Bridge, Decatur, J. B. Tirner, Columbiana, \$8683; Marshall County—7.482 mi. chert surfacing, between Gunter'sville and Arab, Newell Contracting Co., Martin Bldg., Birmingham, \$32,357; Tallapoosa County—8.614 mi. top soil and gravel surfacing, Jackson's Gap to Camp Hill, Granson Construction Co., Jacksonville, Fla., \$25,561; Russell County—concrete culverts, Maryn-Society Hill Road, Granson Construction Co.; Monroe County—treated timber bridges on Little River-Uriah Road, Hudson & Mims, Uriah, \$12,306; Jefferson County—concrete bridges, Birmingham-Gadsden Road, Nixon and Phillips, 308 Lincoln Life Bldg., Birmingham, \$21,124; Autauga County—concrete and timber bridges, Prattville-Selma Road, Lamb & McLemore, Eutaw, \$33,970; St. Clair County—rebuild and repair 32 mi. paved road, Gadsden to Birmingham, S. C. Taylor, Birmingham, \$121,200; Lowndes County—12.22 mi. grading and drainage, Mount Willing to Wilcox County line, W. F. Flowers, 2002 43d St. S., St. Petersburg, Fla., \$65,686; road; Everglades Construction Co., Hialeah, Fla., timber bridges, \$12,047; Houston County—17.62 mi. sand-clay road, Dothan to Columbia, Wofford & Co., Dothan, \$11,769; road; Everglades Construction Co., \$55,193, concrete and timber bridges; W. A. McCalla, State Highway Engr. 11-3

Ala., Montgomery—City, W. L. Jackson, Clk., reported, let contract to Hodgson-Lones Construction Co., N. Perry St., for 4300 sq. yd. sheet asphalt paving, on Lawrence St.; estimated cost \$10,000. 10-6

Ark., Hot Springs—City let contract to George W. Nickels & Sons, Cottage St., for paving Dist. 110, Magnolia Street Dist.

Ark., Little Rock—M. D. L. Cook, Home Insurance Bldg., reported, awarded contract at \$13,470, to pave, curb, install sewers, catch basins, manholes, etc., in Spring St. annex to Street Improvement Dist. No. 444; F. A. Pritchett, Engr., Reigler Bldg.

Ark., Mountain Home—Ernest Euler, Mansfield, Mo., has contract for 15 mi. Highway No. 5, between Mountain Home and Missouri line.

Fla., Daytona Beach—City, Walter A. Richards, Mgr., let contract to William Petersen, 120 Live Oak Ave., D. B., for sidewalks on Grandview and Live Oak Ave.; C. R. Teaff, City Engr. 10-6

Fla., Jacksonville—City Comm., W. W. Bishop, Sec., let contract to Walter J. Bryson Paving Co., 239 W. Adams St., to pave Silver St. from Tenth to Sixteenth; to widen

Riverside Ave., 40 to 48 ft., from viaduct to Rosselle St.; W. E. Sheddan, City Engr.

Fla., Miami Shores—City, reported, let contract to Harrison Construction Co., 235 N. E. 36th St., for sidewalks, streets and street lights.

Fla., Tampa—Hillsborough County Comm., W. A. Dickenson, Clk., let contract to Cone Brothers Construction Co., Caesar and Walton Sts., at \$228,723 for 5 roads, totaling 16 mi.; 16 and 18 ft. wide, 6-in. rock base, slag surface treatment: Lake Fern road, from Pinellas County line, connecting with Tarpon Springs Highway; Citrus Park and Lake Magdalene road; Citrus Park to Oldsmar 1 mi. Citrus Park road, toward Boy Scout camp; short lateral road.

Ga., Waycross—City Comm., W. E. Lee, Clk., let contract to McDougald Construction Co., 180½ Spring St., Atlanta, to pave McDonald and Screven St.; Melville Bronson, City Engr. 12-1

La., Bastrop—Morehouse Parish Police Jury let contract to Cox & Grubbs for 35 mi. graveled highways in 4 wards, Road Dist. No. 1; Lester White, Parish Engr. 10-20

La., New Orleans—City let contract to M. Mitchell & Sons, 2646 Banks St., at \$1.79 per sq. yd. to pave St. Philip St., from St. Cloud to North Claiborne, and from North Galvez to North Hagan.

Miss., Brookhaven—City, Perry A. Coker, Clk., let contract to Dunn Construction Co., Merchants Bank Bldg., at \$55,000 for Warrenite bitulithic pavement on Jackson, Congress and Chickasaw St. 11-17

Miss., Itta Bena—Town, Board of Mayor and Aldermen, let contract to Merrill Engineering Co., Lamar Bldg., Jackson, Miss., at \$8000, for pavement, curbs and gutters on Schley St.

Miss., Prentiss—City let contract to Southern Clay Manufacturing Co., Volunteer Life Bldg., Chattanooga, Tenn., to pave Main St., with vitrified brick surface, gravel base, sand cushion, concrete curb; R. C. S. Watson, Engr., 748 W. Fourth St., Hattiesburg.

Mo., Crystal Springs—P. T. Johnson, reported, awarded contract to extend concrete sidewalks on Lea Ave., West Georgetown and South Dempsey St.

Mo., Plattsburg—State Highway Comm., Jefferson City, let contract to E. D. Tyler Co., Fourteenth and Elmwood Ave., Kansas City, at \$28,988 for 2.098 mi. 18-ft. concrete Kansas City-Liberty Road, Route 69, Sec. 2; T. H. Cutler, State Highway Engr.

Mo., Poplar Bluff—City, C. M. Harwell, Clk., let contract to Tidd & Cole at \$11,218 for 1669 ft. 35-ft. 6-in. concrete paving on Oak St. 11-24

Mo., Springfield—City, W. E. Freeman, Mayor, let contract to Stigall Construction Co., Benton and Talmage Sts., to pave National Ave. subway. 11-24

Okla., Deer Creek—City let contract to Earl W. Baker & Co., Medical Arts Bldg., Oklahoma City, at \$15,219 for 3 blocks gravel paving; V. V. Long & Co., Const. Engrs., Colcord Bldg., both Oklahoma City.

Okla., Enid—City let contract to Earl W. Baker Construction Co., Medical Arts Bldg., Oklahoma City, to pave North Twelfth St., Broadway to Randolph.

Okla., Oklahoma City—City, E. M. Fry, Mgr., let contract to Earl W. Baker & Co., Medical Arts Bldg., to pave streets with concrete in negro dist. at \$2.68 per sq. yd., and lay curbs and sewers; to Western Paving Co., Trades National Bldg., at \$2.83 per sq. yd. for Warrenite bitulithic surface on gravel base, on Sycamore Ave.; at \$3.75 per sq. yd. for Warrenite bitulithic surface, concrete base, on Sixteenth St. and Kelly Ave.

Tenn., Dyersburg—W. R. Aldrich Co., reported, has contract for 6 mi. 9-ft. slab paving, Dist. No. 3.

Tenn., Knoxville—City, Charlton Karns, Mgr., let contract to Murray Construction Co., Houston Natl. Bank Bldg., for following improvements: Paving in 3 Street Paving Districts, \$45,508; improving 20,000 sq. yd. paved streets, \$34,479; paving, sidewalk, curb and gutter improvement in Sequoyah Hills Drainage Dist., \$126,739; sidewalks, curb and gutter districts, Emory Construction Co., Empire Bldg., \$15,725. 11-24

Tex., Center—J. S. Moore & Son, Lufkin, has contract for Tenaha link of Air Line Highway No. 35, Shelby County, from Houston to Shreveport; sub-let contract for grading to W. A. Henry, Center.

Tex., Mission—City let contract to E. P. McElwrath Co., Corsicana, for street paving.

Tex., Richmond—State Highway Comm., R. S. Sterling, Chmn., Austin, let contract, tentatively, to J. F. Dexter, N. Texas Bldg., Dallas, at 13½ cents per sq. yd. for 10.14

mi. asphalt, Highway No. 19, Fort Bend County; R. A. Thompson, State Highway Engr. 11-17

Tex., San Angelo—E. M. Raborn, developer of Hillcrest, let contract to National Paving Co., to pave Twenty-sixth and Twenty-seventh Sts. from Chadbourne to Irving St. Hillcrest; 32-ft. wide, 9-in. caliche rolled to 6-in., 5-in. crushed rock rolled to 3-in. and 1½-in. asphalt surfacing, compacted.

W. Va., Fairmont—State Road Comn., E. B. Carskadon, Sec., Charleston, let contract to Marshall & Gillyoly, Elkins, at \$20,778, for 1.5 mi. grading and drainage Route 73, between Fairmont and Smithton. 11-10

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—Jefferson County, reported, having preliminary surveys made for 12 miles of sewer; L. H. Salter Co., Sanitary Engr.

Ala., Birmingham—City Comsn., reported, let contract to A. H. Dimjian, Woodward Bldg., at \$14,805, for Ivanhoe sewer and at \$22,130 for sanitary sewers on Seventy-seventh St.

Fla., Miami—See Water Works.

Ga., Baxley—See Roads, Streets, Paving.

Ky., Louisville—Northern States Construction Co., reported, has contract at \$732,000 for sewers in Fourth St., from Broadway to Ohio River.

Ky., Richmond—City voted \$60,000 bonds for sewage disposal plant. See Financial News—Bond Issues Proposed.

La., Bastrop—City, Mabel McCreight, Clk., reported, extend sewage system; A. C. Volk, City Engr.

La., New Orleans—Sewerage and Water Bd. let general contract for water works, sewage and drainage to James M. McGowan, 1325 Calhoun St. 10-13

La., Opelousas—City, reported, voted \$100,000 sewer bonds. Address The Mayor.

La., Tallulah—City, reported, plans sewerage system; cost \$100,000. Address The Mayor.

Maryland—Washington Suburban Sanitary Comsn., Evans Bldg., Washington, D. C., receives bids Dec. 14 for sewage pumping stations at Gaithersburg and Washington Grove. See Want Section—Bids Asked.

Md., Baltimore—Board of Awards let contract to Pio Moroco, 3700 Forest Park Ave., at \$67,834 for extension of sanitary sewers and drains. 11-17

Md., Baltimore—Board of Awards receives bids Dec. 14 for sewers and storm drains. See Want Section—Bids Asked.

Mo., De Soto—City, H. W. Harris, Clk., receives bids about Jan. 1 for sanitary sewer system; Chas. A. Haskins, Const. Engr., 822 Finance Bldg., Kansas City. 11-17

Mo., Golden City—See Water Works.

Mo., Lebanon—City, reported, plans sewer system. Address The Mayor.

Mo., St. Joseph—City, reported, let contract for sewers to E. F. Mignery, 1108 Bellevue Ave.; O. H. Schmist, First State Bank Bldg.; H. Devlin, 308½ Felix St.; Judson Engineering & Construction Co., 1811 Faraon St.

Mo., St. Louis—Board of Public Works, reported, plans vitrified clay, segmental tile or brick sewer in North Baden Joint Sewer Dist. No. 3.

N. C., Asheville—O. H. Tilson, J. Arthur White, Trustees for Venable District water and sewer system, reported, soon call for bids for sewers.

N. C., Durham—City, R. W. Riggsby, Mgr., wires: "Contract for outfall sewer and sewage disposal plant for Duke University let to Elliott Building Co., Hickory, and Conrad Construction Co., Florence, S. C.; disposal plant Third Fork to McClellan Co., Wilder Bldg., Charlotte."

N. C., Kinston—City, reported, plans sewer improvements; will take over Adkin Creek, deepen it and widen it and make it the main artery in the sewerage system. Address The Mayor.

Okla., Crescent—Brown Construction Co., Guthrie, reported, has contract at \$31,326 for sewage disposal plant.

Okla., Oklahoma City—City voted \$250,000

sanitary sewer bonds and \$2,424,000 for storm sewers. See Financial News—Bond Issues Proposed.

Okla., Okemah—Town, I. S. Price, Clk., advises: "No sewer extension contemplated." 12-1

Okla., Tulsa—City, reported, plans sewers in Avondale and Wildwood Additions; C. Schultz, Engr.

S. C., Gaffney—Geo. B. Dean, 715 Gledalyn St., Spartanburg, and Boyd & Goforth, Independence Bldg., Charlotte, N. C., have contract for plumbing and sewer installation; for Limestone Mills; cost \$16,000; 14,000 ft. of power lines, 8 and 10 in. pipe and plumbing in 122 houses.

Tenn., Knoxville—A. J. Wardrop & Sons, 409 W. Clinch Ave., reported, has contract at \$63,505 for Sequoyah Hills drainage district; Murray Construction Co., at \$11,472, for Lincoln Park sewer extension.

Tenn., Nashville—See Water Works.

Tex., Fort Worth—City, O. E. Carr, Mgr., votes Jan. 10 on \$1,100,000 bonds for sewage disposal plant and sanitary sewers.

Tex., Houston—City let contract to Delone Construction Co., 404 Magnolia Bldg., Dallas, for Reinermann St. storm sewer; to Tellepsen Construction Co., 39 Clay Ave., for Shepherd Drive storm sewer. 11-24

Tex., Laredo—City, reported, receives bids Dec. 15 for extending sewerage system. Address The Mayor. 11-24

Tex., Miami—City votes Dec. 20 on \$40,000 sanitary sewer bonds. See Financial News—Bond Issues Proposed. 10-27

Tex., San Antonio—Colglazier & Hoff, reported, have contract for laying mains for first section of Alamo Heights sanitary sewer and storm sewer system.

Tex., Yoakum—City votes Dec. 21 on \$70,000 sewer bonds; C. C. Crutchfield, Asst. City Mgr. 11-10

W. Va., Huntington—City, reported, let following contracts for New Hope Creek disposal plant and sewer outfall; to Canard Construction Co., at \$46,000 for sewer line; Elliott Building Co., at \$25,000 for disposal plant; contract for Third Fork disposal plant not let. 11-17

W. Va., Huntington—City receives bids Dec. 14 for storm relief sewer. See Want Section—Bids Asked.

W. Va., Huntington—S. R. Bishop & Co., Coal Exchange Bldg., reported, has contract for Holihurst sewer.

Telephone Systems

D. C., Washington—Chesapeake & Potomac Telephone Co., A. E. Berry, Pres., 723 12th St. N. W., will expend \$42,950 on central office equipment and underground cable; Chas. T. Claggett, Gen. Comm. Supt. 11-24

Fla., Leesburg—Florida Telephone Corp., S. Third and Orange Sts., reported, let contract to Rigdon Brothers for plant addition, 1-story; to be completed within 60 days.

Fla., Venice — Peninsular Telephone Co., Tampa, reported, granted 30 telephone franchises; plans establishing telephone exchange and main office in Johnson-Schoolcraft Bldg.; work underway.

La., Hammond—Southern Bell Telephone & Telegraph Co., main office, Atlanta, Ga., reported, let contract to Dominick Anzalone, Independence, La., for erection exchange building, 2-story, reinforced concrete, structural steel, built-up composition roof, glazing, plumbing, etc.; cost about \$23,375. 10-20

Miss., Pass Christian—L. H. Barksdale, Pres., Pass Christian Chamber of Commerce, interested in proposed installation of telephone exchange (flashlight system) on second floor of Hancock County Bank Bldg., now under construction.

Mo., St. Louis—Southwestern Bell Telephone Co., reported, increased capital \$200,000,000 to \$300,000,000 through issuance of \$100,000,000 in common stock; new issue to pay indebtedness to the holding company, The American Telephone and Telegraph Co., New York City.

N. C., Goldston — Central Carolina Telephone Co., Geo. R. Foss, Pres., reported, acquired Bonlee Telephone, which serves Chatham County and Snow Camp Telephone Co.; will operate. 10-20

Texas—Southwestern Bell Telephone Co., main office St. Louis, Mo., reported, acquired holdings of the Pecos and Rio Grande Valley Telephone Co., serving Fort Stockton, Rankin, Iraan, Girvin, McCamey and other towns in that section; plans improvements.

W. Va., Wheeling—Chesapeake & Potomac Telephone Co. of W. Virginia, Charleston, will expend about \$13,870 on additions and improvements to system.

Textile Mills

Alabama—Preliminary negotiations under way for merger of Southern textile mills into Cotton Yarn Mill Corp.; J. Henry Smith of Flint & Co., Inc., 25 Broad St.; F. L. Walton, vice-president of Parrish & Co., 25 Broadway, both New York, interested; merger will be comprised of mills in North Carolina, South Carolina, Georgia, Alabama and Tennessee; mills now being under option in these States; plans including one large operating company into which the individual units will be consolidated; about 136 mills containing 1,500,000 spindles have been inspected to date and reports received concerning them; balance of mills will be inspected later.

Ark., Camden—Chamber of Commerce, reported, negotiating with outside capitalists for textile mill.

Ark., Morrilton—Southern Securities Co., Little Rock, offering \$125,000 first mortgage (closed) 7% sinking fund gold bonds of Morrilton Cotton Mills, Inc.; company has tire fabric plant; mill was moved from Groveville, N. J., by Morris & Co. 11-17

Ga., Columbus—C. A. Rhyne, LaFayette, and J. R. Killian, North Adams, Mass., reported, acquired Georgia Webbing and Tape Co.'s plant; will improve, install additional machinery.

Ga., Commerce—Harmony Grove Mills, Dr. L. G. Hardman, Pres., reported, have plans completed by Robert & Co., Inc., Atlanta, and ready for distribution by Dec. 15 for mill unit; brick walls; concrete footings; built-up roof; concrete floors; sprinklers; cost \$300,000. 12-1

N. C., Greensboro—Proximity Mfg. Co., Proximity, N. C., reported, erect 2-story, 260x144-ft., fireproof weave mill; install 1000 looms for production of denims; cost \$400,000; soon let contract. 11-24

N. C., Greensboro—Juvenile Hosiery Mill, reported, let contract to Burns-Hammond Construction Co., Jefferson Bldg., for \$25,000 hosiery mill at Valley Park drive and Holbrook St.; 1½ stories; brick.

N. C., Ranlo—Lee Robinson and Carl A. Rudisill, both Gastonia, reported, reorganized Rex Spinning Mill, a \$1,000,000 textile mill, of 20,480 spindles; manufactures fine combed yarns; Lee Robinson will be president of company.

N. C., Statesville—Gagner Mfg. Co., capital \$300,000, incorporated; S. B. Bristol, J. M. Deaton, Statesville; Henry D. Gagner, Adams, Mass.; erecting tapestry mill. 11-17

N. C., Statesville—Gagner Mfg. Co., Adams, Mass., let contract to Virginia Bridge and Iron Co., Madison Ave. N. E., Roanoke, Va., for structural steel for silk tannery mill; to Wm. Bayley Co., Springfield, Ohio, for steel sash; Grier-Lowrance Construction Co., Statesville, Gen. Contr. 11-17

N. C., Winston-Salem — Arista Mills Co., Wachovia Bank Bldg., reported, let contract to Cocker Machine and Foundry Co., 213 Chestnut St., Gastonia, for installing equipment for dyeing warps with indigo, using Cocker continuous system.

S. C., Gaffney—Chamber of Commerce, R. C. Leonard, Pres., reported, negotiating with Massachusetts cotton waste company for establishment of plant.

S. C., Hartsville—Easton Finishing Co., Easton, Pa., Fred B. Vogeli, Pres., reported, remove plant to city; will incorporate under laws of South Carolina as Hartsville Bleachery, and will engage in bleaching, dyeing and finishing cotton piece goods and rayon; goods will be received from various points in the South, finished and shipped to Eastern points by rail and water through port of Norfolk; enterprise will involve expenditure of \$500,000; building 800x90 ft., containing some 60,000 sq. ft. floor space, will be constructed and equipped with modern machinery for bleaching, finishing and dyeing piece goods; construction to begin about Jan. 1; brick and steel standard mill construction. Company wires: "Are establishing plant for bleaching, dyeing, finishing and mercerizing at Hartsville; have not selected engineers as yet; bids for building should be out by end of this month; bids for other work during January or February; Fred B. Voegeli, in charge of plant."

S. C., Spartanburg—Whitney Mfg. Co., reported, let contract to Textile Mill Supply Co., 1200 S. Mint St., Charlotte, N. C., for transmission material; Lockwood, Greene & Co., Engrs., Greenville.

S. C., Spartanburg—Powell Knitting Mills, Edward Powell, Pres., reported, double cotton half hose plant and install dyeing department; increase capacity to 2750 doz. pr. daily; Lockwood, Greene & Co., Engrs., Charlotte, N. C.

S. C., Taylors—Piedmont Print Works will

have plans completed about Dec. 20 by J. E. Sirrine & Co., Engrs., Greenville, for print and dye works. 11-10

S. C. Travellers Rest—Woodward-Baldwin interests, Renfrew Plant, reported, will receive general contract bids Dec. 8 for 1-story weave shed, 281x138 ft.; dyeing and finishing plant, 309x203 ft., 1 story; warehouse building, 1 story, 150x100 ft.; brick walls; concrete footings; built-up roof; concrete and wood floors; misc. structural steel; also erect 69 mill cottages and install new heating plant; plans completed by J. E. Sirrine & Co., Engrs., Greenville; among contractors estimating are A. Bentley & Sons Co., Atlantic Natl. Bank Bldg., Jacksonville, Fla.; Fiske-Carter Construction Co., Masonic Temple Bldg., Gallivan Construction Co., Gallivan Bldg., Morris-McKoy Bldg. Co., Finlay Bldg., and Potter & Shackelford, Inc., Allen Bldg., all of Greenville; Foundation Co., 120 Liberty St., New York; Southeastern Construction Co., 210 W. Second St., Charlotte, N. C.; Crockett & Pew, Inc., Red Rock Bldg., Atlanta, Ga. 11-24

Tenn., Athens—S. M. Edelstein & Co., Industrial Engr., Union, S. C., wires: Warwick Knitting Mills, Brooklyn, N. Y., relocated by us in Athens; company manufacturers woolen sport wear, selling direct to retail trade as well as knitted dress goods for jobbing and cloak trades; new building and mill village will be erected for corporation by Tom Sherman, Athens; will have floor area of 55,000 sq. ft.; install complete sprinkler and heating system; will employ 250 operatives, double number in 18 months; charter will be applied for upon completion of legal details.

Tenn., Charleston—D. E. Mackey, Sec. Chamber of Commerce of Charleston and Calhoun, reported, negotiating with outside capitalist for establishment of plant for weaving silk cloth; enterprise will be capitalized at \$50,000, community to subscribe for \$20,000 preferred stock; company to put in \$30,000, erect building and purchase site.

Tex., Houston—Houston Textile Mills, E. Montgomery Rd., reported, let contract at \$36,200 to Don Hall, Cotton Exchange Bldg., for erection of 4-story, fireproof warehouse; 50x100 ft., contain 20,000 sq. ft. floor space; reinforced construction; foundation laid sufficient for 5th story; Robt. J. Cummings, Const. Engr.

Va., Winchester—Stockholders of Arthur G. Jones Woolen Mills Corp., reported, voted authority to issue \$150,000 7% preferred stock; portion to be utilized for erecting mill unit; manufactures cloth for knickers and caps.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Birmingham—See Miscellaneous Enterprises.

Ark., Fort Smith—De Laval Steam Turbine Co., 432 Dwight Bldg., Kansas City, Mo., reported, has contract for high lift and low lift condensing turbo-centrifugal pumping engine.

D. C., Washington—District Commissioners, reported, plan extension of fire-protection system; probably expend \$686,350.

Fla., Bradenton—City receives bids Dec. 30 for pumping plant. See Want Section—Bids Asked.

Fla., Miami—City Comsn., reported, authorized extension of water main along Tigertail Rd., from Coconut Grove water plant to Seventeenth Ave., Silver Bluff; cost \$13,000; will purchase 7300 ft. of 10-in. pipe for line at cost of \$9000; will extend sewers on N. W. Sixth Ave., N. W. Fifth St., N. W. Fourteenth Ave. and N. W. Nineteenth Ave.; cost \$8000.

Fla., Palmetto—City let contract to Fairbanks Morse Co., 900 S. Wabash Ave., Chicago, Ill., for 120-h.p. Diesel engine, pumps, etc., at water plant.

Fla., St. Petersburg—City, R. E. Ludwig, director of Public Utilities, reported, construct filtration and water-softening plant and extension of mains to new water reserve area near Saw Grass Lake; will vote soon on bonds.

Fla., St. Petersburg—City, R. E. Ludwig, Director of Public Utilities, plans installing filtration and treatment plants for future water supply; will vote on \$750,000.

Ga., Griffin—Griffin Waterworks Co., in-

corporated; J. W. Gresham, B. R. Blakely, J. P. Persons; negotiating with city for purchase of water system.

Ky., Lawrenceburg—City voted \$15,000 bonds for installing dam. See Financial News—Bond Issues Proposed.

La., New Orleans—Sewerage and Water Board receives bids Jan. 23 for pumps and check valves. See Want Section—Bids Asked.

La., Opelousas—City, reported, voted \$50,000 bonds for improvements and equipment to water and light plant. Address The Mayor.

La., Pineville—Town, J. M. Rembert, Mayor, votes Dec. 14 on water and sewer bonds.

Md., Annapolis—Board of Directors of Annapolis Water Co. receives bids Dec. 19 for standpipe. See Want Section—Bids Asked.

Miss., Bay St. Louis—City, G. Y. Blaise, Mayor, let contract to Layne-Central Co., Memphis, Tenn., for extension of 8-in. water well; Robt. L. Totten, Engr., Brown-Marx Bldg., Birmingham, Ala.

Miss., Jackson—Kinnaird & Walker, Edwards Hotel Bldg., reported, has contract for water mains on Raymond Rd.

Miss., Natchez—City, L. A. Whittington, Mayor, reported, considering sale of water works plant.

Miss., Ripley—City voted water works bonds. See Financial News—Bond Issues Proposed.

Mo., Golden City—City, reported, plans water works system; A. C. Moore, Engr., Joplin Natl. Bank Bldg., Joplin.

Mo., St. Louis—Missouri Rolling Mill Corp., 6800 Manchester St., reported, has contract for 200 tons of reinforcing steel for coagulating basin of St. Louis municipal water works.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., reported, received low bid from Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, to furnish all material, equipment, tools and labor necessary to manufacture, deliver at Howard Bend, Hine, steel conduits, appurtenances, including cast steel fittings, manifolds, chamber and Venturi meter chambers and one 60-in. steel conduit.

Mo., Springfield—Springfield Water Co., reported, filed application with Public Service Comsn., Jefferson City, for authority to issue \$500,000 in 5-yr. notes bearing 5½% interest, to provide funds for improvements to water system. 11-10

N. C., Charlotte—City Commrs., will install 11 fire hydrants; R. L. Brown, Commr. Public Works.

N. C., Dunn—J. E. Beaman Construction Co., Lawyers Bldg., Raleigh, has contract for extension to water works system; Norwood Engr. Co. has contract for filter equipment; Goulds Pumps, Inc., Seneca Falls, N. Y., for pumps; Wm. C. Olsen, Engr., Raleigh Bank & Loan Bldg., Raleigh. 12-1

N. C., Fort Bragg—Office of Constructing Quartermaster receives bids Dec. 27 for cast iron water mains. See Want Section—Bids Asked.

Okla., Ada—City, reported, plans reinforced concrete conduit; \$425,000 available. Address The Mayor. 11-3

Okla., El Dorado—Board of City Commrs., reported, soon receive bids for equipment for water works and sewage system, including 50,000 gal. capacity steel tank and tower and water softening plant; Benham Engineering Co., Gumbel Bldg., Kansas City, Mo., Const. Engr. 10-27

Okla., Oklahoma City—City voted water works bonds. See Financial News—Bond Issues Proposed.

Okla., Tahlequah—Town, E. T. Nelson, Clk., receives bids Dec. 5 for furnishing tools, equipment, labor and materials and constructing concrete dam and 6-in. cast iron pipe flow line.

Okla., Tipton—City, reported, let contract to E. W. Baker & Co., Perrine Bldg., Oklahoma City, for reservoir, air compressor, etc. 10-20

Okla., Tecumseh—City, reported, defeated \$15,000 water works bonds. Address The Mayor. 11-24

S. C., Marion—City, reported, plans voting on bonds for purchase of water plant. Address The Mayor.

S. C., Woodruff—Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, reported, has contract for sewer and water system for Mills Mill No. 2; Lockwood, Greene & Co., Engrs., Charlotte.

Tenn., Nashville—City Board of Public Works, reported, plans laying 6-in. water main in Walker St. and constructing storm sewer in Minnesota Ave.

Tex., Abilene—City receives bids Dec. 10 for pipe line. See Want Section—Bids Asked.

Tex., Bangs—City votes Dec. 18 on \$45,000 water works bonds. Address The Mayor.

Tex., Boerne—City, R. L. Hickman, Mayor, receives bids Dec. 23 for drilling water well. See Want Section—Bids Asked.

Tex., Devine—San Antonio Machine Supply Co., 325 N. Center St., San Antonio, has contract to furnish 1 deep-well (Cook) pump, 1 service 200-g.p.m. centrifugal pump, fire pump 500 g.p.m., accessories, valves. 12-1

Tex., Fort Worth—City, O. E. Carr, Mgr., votes Jan. 10 on \$200,000 water works bonds.

Tex., Goose Creek—City, reported, let contract to Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa., for 60,000-gal. capacity steel water tower.

Tex., Jasper—City, reported, plans expending \$110,000 bonds for water works, distributing system, etc.; C. P. Hunter, Engr. 10-20

Tex., San Saba—City votes Dec. 13 on water and sewer bonds. See Financial News—Bond Issues Proposed.

Tex., San Antonio—Catarina Water Supply Co., incorporated; J. E. Jarratt, C. H. Kearny, both Frost Natl. Bank Bldg.

Tex., San Antonio—City, W. D. Masterson, Mgr., Water Dept., receives bids Dec. 21 for two 300-h.p. boilers; cost \$40,000 for Market St. station.

Tex., Sweetwater—City, reported, granted permit from Board of Water Engrs., Austin, for constructing dam at Cottonwood and Bitter Creek, tributaries of Brazos River; dam will be of earth, 4200 ft. long and 50 ft. high; store 10,000 acre-feet with similar amount for annual diversion.

West Virginia—North American Water Works Corp., New York, reported, acquired water system in St. Albans, Madison and Dunbar, properties of Union Water Works Co.

Wa. Va., Durbin—Town, reported, votes Dec. 17 on \$18,500 bonds for water works; will construct dam at Cromer Spring and pipe water to town.

W. Va., Parkersburg—Layne-Atlantic Co., affiliated with Layne & Bowler Mfg. Co., Seaboard Ry. Bldg., Norfolk, Va., has contract for well system of approximately 21 wells, together with pump houses, pumps, switchboards, and pipe collecting system, to deliver a supply of 6,000,000 gal. water a day to an iron removal plant, contracts for which will be let at an early date; will build approximately ¾ of a mile of temporary road and start drilling 3 or 4 wells, but no building or pipe line work of any kind will be started until March or April, will probably purchase pipe in May. See Machinery Wanted—Building Materials and Equipment; Machinery and Supplies.

Woodworking Plants

La., New Orleans—Standard Handle Mfg. Co., Inc., chartered; J. J. Favaloro, 2079 Fern St., R. De Armas, 1565 N. Miro St.

Miss., Greenville—Southern Stave and Lumber Co., reported, plans establishing plant to manufacture staves, daily capacity 30,000 staves; E. D. Davis and H. B. McCormick, Mgrs.

N. C., Thomasville—S. E. Tucker and R. R. Ragan, Owners of Columbia Panel Co., reported, acquired the North State Veneer Co., plans enlarging plant, etc.

Va., Scottsville—C. B. Harris, Sr., will rebuild burned structure on Lumber St., which was occupied by L. L. Hayman's woodworking plant. 11-24

FIRE DAMAGE

Ala., Mobile—Tenement, 302 Armistead St., owned by Chas. Lagman.

Ark., England—Main building of American Gin Co.; loss \$30,000.

Ark., Marianna—Miller Lumber Co.'s drying shed; loss \$25,000.

Fla., Ponce de Leon—Hart Lumber Co.'s planing mill; loss \$100,000.

Ky., Etoile—Tevie Smith's residence near Etoile; loss \$5000.

Ky., Hazard—Star Furniture Co. building; loss \$50,000; address Robert Whittaker.

Ky., Louisville—Sheds and lumber of Parkway Lumber and Construction Co., 570 Eastern Parkway; loss \$20,000.

Ky., Newport—Peter Rinehard's barn, Licking Pike, 10 mi. from Newport; loss \$10,000.

La., Bastrop—Unoccupied dwelling in

Larche Quarters, North Bastrop, owned by Dr. L. F. Larche.

La., Haynesville—Boiler room of Haynesville Lumber Co.'s plant; loss \$10,000.

La., Winnsboro—E. and F. Cafe, Winnsboro Publishing Co. building, E. O. Strahan Jewelry Store, Pardue & Carter's Meat Market; loss \$50,000.

Miss., Hattiesburg—Mattingly Bakery, 127 Buschman St., loss \$125,000; L. H. Mattingly, Propr.

Miss., Kosciusko—Israel Mayfield's residence.

Miss., Kreole—C. E. Nelson's residence near Kreole.

Mo., Jefferson City—Osage River Clubhouse, owned by Orlando Hickey of Hickey Paint & Glass Co.

Mo., Laddonia—Laddonia Herald building and equipment, owned and edited by Mrs. Alice Moss Ferris.

Mo., Malden—Jesse Mills' store owned by H. P. Kinsolving; Masonic Hall; Allen Store Co.'s building; loss \$30,000.

N. C., Charlotte—Basement of Latta Arcade; loss \$25,000.

N. C., Cross Hill—Mercantile establishments of E. J. Leaman and Joe L. Carter.

N. C., Samarcand—Carroll Dormitory at Samarcand Manor; Mrs. J. R. Pagen, member Board of Directors.

N. C., Star—Star Drug Co., B. M. Jenkins' store and Dr. H. A. Griffin's office; loss \$33,000.

N. C., Winston-Salem—Dormitory for students of Howard's Business College, at 14th St. and Patterson Ave.; S. D. Howard, principal, 511½ N. Liberty St.

S. C., Greenwood—Second floor of Greenwood Hotel, Rush Estate, owners.

S. C., Jonesville—A. R. Robinson's residence, Forrest St., owned by S. G. Gault.

S. C., Orangeburg—Residences of R. H. Simmons and Walter Felder, latter owned by Mrs. Frankie Easterlin Westberry; 2 adjoining stores owned by Mrs. Westberry.

Tenn., Red Bank, Chattanooga—Red Bank Baptist Church; loss \$8000; Rev. J. C. Pitts, Pastor.

Tenn., Trenton—J. W. Branson's cotton gin; loss \$25,000.

Tenn., Trenton—J. W. Branson's cotton gin; loss \$36,000.

Tex., Cleburne—McCord Wholesale Grocery Co. building; loss \$12,000.

Tex., Denton—Buildings owned by John B. Schmitz and occupied by Economy Furniture Store and Schmitz Funeral Home; loss \$45,000.

Tex., Kenedy—T. P. Jones' gin plant; loss \$9000.

Tex., Ponder—Swafford-Cope Gin; loss \$26,082.

Va., Suffolk—Buildings owned by Dr. E. L. H. Kance, occupied by Claude Haslett, merchant, dwellings of Mildred Miller and F. C. Harkin.

Va.-Tenn., Bristol—Bristol Coal and Ice Co.'s building, Piedmont St.

Va., Waynesboro—Samuel Valentine Shirt Co.'s plant; loss \$140,000; main office 107 Franklin St., New York City; building owned by R. S. Anderson, Danville, Va.

W. Va., Follansbee—F. M. Blosser Garage; loss \$30,000.

W. Va., Romney—Coffman & Fisher, general merchandise; Atlantic & Pacific Store, Mayfair Restaurant, Hampshire Motor Co., Oates Poolroom, Robert Shingleton's barber shop; loss \$50,000.

W. Va., Weston—Albert Bailey's residence and grocery, Frances Foster's apartment and grocery, Cecil Blake's residence; loss \$25,000.

erect building; M. F. Giesey, Archt., Riley Law Bldg., Wheeling; bids in Dec. 7.

Churches

Ark., Imboden—Baptist Church, Rev. C. P. Waller, Pastor, Box 34, Black Rock, erect \$80,000 building; 40x60 ft.; heating, Oscar McKamey; electrical work and plumbing by day labor. See Want Section—Building Material and Equipment.

Fla., Gainesville—First M. E. Church, Major W. F. Floyd, Chmn., Bldg. Comm., having plans revised for \$200,000 church and Sunday school; concrete and steel, brick and tile, wood and concrete floors, slate and composition roof; Hart, Freeland & Roberts, Archts., Independent Life Bldg., Nashville, Tenn. 7-21

Fla., Jacksonville—Springfield Presbyterian Church has low bid at \$53,900 from D. D. Thomas & Son, Lutz Bldg., Jacksonville, and 463 N. Dunlap St., Memphis, Tenn., for building; Mellen C. Greeley, Archt., 32 W. Forsyth St. 11-10

Ga., McRae—Methodist Church, S. P. Allen, Chmn., Bldg. Comm., erect \$35,000 Sunday school; brick and frame, composition roof.

Ga., Savannah—Sacred Heart R. C. Church, Rt. Rev. M. J. Keyes, D. D., Bishop, erect \$11,500 frame addition.

Ga., Thomasville—Following contractors estimating on \$85,000 First Baptist Church, bids opened Dec. 15: J. A. Rowland, J. M. Culpepper, both Thomasville; Gates Construction Co., D. D. Thomas & Son, Lutz Bldg., both Jacksonville, Fla.; Gaverstick Construction Co., Quitman, Ga.; J. S. McCauley & Co., Bana Allen Bldg.; C. H. Van Ormer, Healey Bldg., both Atlanta, Ga.; Palmer-Spivey Construction Co., 404 S. Tryon St., Charlotte, N. C.; Algernon Blair, 11 S. Lawrence St., Montgomery, Ala.; King Lumber Co., Charlottesville, Va.; Jesse L. Pratt, 143 Third Ave., Daytona Beach, Fla. W. R. McDonald, Winter Haven, Fla.; J. J. Johnson, DeFuniak Springs, Fla.; N. Sargent Hamilton, Archt., Sans Souci Studio, Atlanta. 11-24

Md., Baltimore—Roman Catholic Diocese, Michael F. Curley, Archbishop, probably have plans out latter part of month for church, school, convent and rectory for new St. Bernardina Parish, Edmondson Ave. and Mount Holly St.; Romanesque; church as gift of James Keely, to be granite, slate roof, copper dome covered with gold leaf; rectory, 3 stories, 70x142 ft., with 88-ft. tower, granite front; school, 2 stories and basement, granite front, assembly hall seat 600, 12 classrooms; convent, 3 stories, granite front, accommodate about 15 sisters; central outside heating plant; Francis E. Tormey, Archt., 3411 Gwynns Falls Pkwy.

Miss., Prentiss—Baptist Church, Rev. Jas. B. Quinn, Pastor, plans \$35,000 brick building.

N. C., Charlotte—Myers Park Presbyterian Church, David Owens, Chmn. Bldg. Comm., receives bids Dec. 14 for native stone building; cost \$250,000; Old English slate roof, vacuum system steam heat, 80-ft. main tower; J. W. McMichael, Archt., Builders Bldg., Charlotte; Meyer & Mathieu, Asso. Archts., 316 Flatbush Avenue, Brooklyn, N. Y. 11-24

N. C., Greensboro—First Presbyterian Church receives bids Dec. 20 for rein. concrete and struct. steel church and Sunday school cost \$500,000, brick exterior, stone trim, concrete and wood floors, slate and composition roof, steel sash, steam heat; Hobart Upjohn, Archt., Grand Central Terminal, New York; Harry Barton, Asso. Archt., Jefferson Bldg., Greensboro; following contractors estimating: Walter Kidde & Co., Jefferson Bldg.; Angle-Blackford Co., J. L. Crouse, both American Exchange Bldg.; Burns-Hammond Construction Co., Geo. W. Kane, both Jefferson Bldg., all Greensboro; J. E. Beaman Construction Co., Lawyers Bldg., Raleigh; North-Eastern Construction Co., Nissen Bldg., Winston-Salem; W. P. Rose, Goldsboro; J. A. Jones Construction Co., Realty Bldg.; J. P. Little & Son, Independence Bldg., both Charlotte; Jewell-Riddle Co., Sanford; R. K. Stewart & Son, 154 S. Main St., High Point. 4-28

N. C., Winston-Salem—Ardmore Moravian Church, Rev. Wm. R. Steininger, Pastor, plans building.

N. C., Wilmington—First Christian Church erect building, Third and Ann Sts. Address The Pastor. 10-13

S. C., Greenville—Pendleton Street Baptist Church, Dr. D. B. Hahn, Pastor, considers remodeling present structure, erecting new building on present site or erecting church at new location; cost \$80,000 to \$100,000.

Tenn., Clarksville—Church of the Nazarene, Rev. R. B. Rawls, Pastor, plans to remodel building; veneer exterior.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Stuart—Ancient Free and Accepted Masons, Edwin Rogers, Chmn., Bldg. Comm., reported, soon call for bids for temple; cost \$70,000; Bert D. Keck, Archt., Peacock Arcade.

Fla., West Palm Beach—Palm Beach Shrine Club remodel building; additional rest rooms and entrances to ball and dining rooms.

S. C., Columbia—Richland Post, American Legion, S. C. Strohecker, Commdr., plans clubhouse.

Tex., Turkey—Ancient Free and Accepted Masons completed plans for 2-story temple; stores on first floor.

Tex., Waco—Karem Shrine, A. A. O. N. M. S., G. H. Zimmerman, Potentate, erect \$250,000 temple, Seventh and Washington Aves.; roof garden, ballroom, etc.

Va., Hopewell—Hopewell Amusement Corp., M. T. Broyhill, Pres., have plans complete for rein. concrete, steel, brick, frame and terra cotta building for Knights of Pythias; 3 stories, 140x110x74 ft., concrete and wood floors, concrete foundation, built-up roof; motion picture theater seat 800 to 1000 on first floor; Osbert L. Edwards and Fred A. Bishop, Asso. Archts., Box 188. 11-24

W. Va., Williamstown—Ancient Free and Accepted Masons purchased 3-story brick building, Front St.; remodel and redecorate.

Bank and Office

Fla., Tampa—Tampa Board of Trade, L. P. Dickie, Exec. Vice-Pres., let contract to Logan Bros., 706 Franklin St., to remodel Castle Hall Bldg. for quarters; cost \$10,000 to \$12,000; B. C. Bonfoey, Archt. 11-24

Ga., Atlanta—Rhodes Haverly Co. erect office building, Peachtree, James and Forsyth Sts.; rein. concrete and terra cotta, probably 3 stories and basement, built-up roof; Pringle & Smith, Archts., Norris Bldg.

Ky., Latonia, Covington—Latonia Deposit Bank and Trust Co. having preliminary plans for \$60,000 bank and office building, Decoursey and Inez Aves., drawn by H. Richard Elliston, 3727 Decoursey Ave., Covington; reinforced concrete, stone and brick, 3 stories, 38x80 ft., concrete and marble floors, concrete foundation, flat built-up roof, vapor heat; furnishings, equipment, etc., \$20,000. Address Archt. See Want Section—Building Material

and Equipment and Miscellaneous. 12-1

La., Rayville—Commercial Bank, T. J. Coenen, Pres., drawing plans for 2-story building.

Md., Baltimore—Baltimore Trust Co., Waldo Newcomer, Chmn., Board of Directors, erect bank and office building, Light and Redwood Sts.; cost about \$3,000,000, tower type, 16 and 24 stories, site 114x195 ft.; Taylor & Fisher, Union Trust Bldg., and Smith & May, Calvert Bldg., Asso. Archts.; Herman F. Doeleman, Struct. Engr., 516 N. Charles St.; drawing preliminary plans. 11-3

Mo., St. Louis—American Metal Products Corp. erect \$35,000 office addition to factory, Goodfellow Ave. and Wabash R. R.; Preston J. Bradshaw, Int. Life Bldg.

N. C., Winston-Salem—R. J. Reynolds Tobacco Co. approved preliminary plans for 21-story office building, Fourth, Main and Church Sts.; additional lower floor level on Church St.; 120x200 ft., stores on first floor; Shreve & Lamb, Archts., 331 Madison Ave., New York. 10-13

Tenn., Chattanooga—Hamilton Trust and Savings Bank, T. R. Preston, Pres., reported, decided to erect \$300,000 to \$500,000 building, Main and Market Sts.; 61x110 ft., 5 to 8 stories; increase capital stock from \$250,000 to \$500,000. 6-2

Tenn., Chattanooga—American Trust & Banking Co., E. Y. Chapin, Pres., receives bids Dec. 19 for bank building, Eighth and Market Sts.; cost \$500,000; 60x153 ft., 55 ft. high, washed air ventilating system, sounddeadening wall treatment; K. M. Vitzthum & Co., 307 N. Michigan Blvd., Chicago, Ill., and Bearden & Crutchfield, First Natl. Bank Bldg., Chattanooga, Asso. Archts. 12-1

Tenn., Johnson City—Braemar Power Co. L. D. Gasteliger, Pres., erect building to house main offices, E. Main St.

Tex., Los Fresnos, R. D. from San Benito—Delta Development Co., E. D. Couch, Pres., Weslaco, erect \$25,000 bank building; R. Newell Waters, Archt., Weslaco.

Tex., San Antonio—Federal Reserve Bank receives bids Dec. 21 at office Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., for rein. concrete, brick, stone and marble building, Villita and Navarre Sts.; 2 stories and basement, 60x80 ft., tar and gravel roof; W. E. Simpson & Co., Engrs., Nat. Bank of Commerce Bldg. 11-17

W. Va., Farmington—Bank of Farmington

Tex., Beaumont—North End Methodist Church, Rev. A. A. Tharp, Pastor, plans \$30,000 building.

Tex., Longview—First Baptist Church, Rev. John L. Whorton, Pastor, erect \$50,000 addition; 3 stories and basement.

Tex., Palestine—Second Presbyterian Church probably let contract in few days for brick building, S. Sycamore St. 7-21

Va., Alexandria—Beth Israel Congregation purchased 3-story brick dwelling, Wolfe St. near Pitt St.; remodel for synagogue.

Va., Hopewell—Presbyterian Church plans building. Address The Pastor.

Va., Richmond—Meade Memorial P. E. Church, Willis C. Pulliam, Chmn. Building Comm., approved plans by Eubank & Caldwell, Boxley Bldg., Roanoke, for \$50,000 building, Cowardin Ave. and Bainbridge St.; brick, T shape.

City and County

Ala., Birmingham—City Commission considers completing first unit of stadium; cost \$125,000; D. O. Whilldin, Archt., 515 N. 21st St.

Ala., Mobile—Mobile County Board of Revenue, Albert S. Towle, member, courthouse comm., considers constructing fireproof vault at courthouse.

Ark., Booneville—Logan County Quorum Court, Roy Blair, County Judge, selected Haralson & Nelson, Mercantile Bank Bldg., Fort Smith, as architects for \$90,000 courthouse. 11-24

Ark., Forrest City—City receives bids Jan. 30 for brick, stone, steel and concrete city hall; cost \$40,000, 3 stories, 44x132 ft., concrete and wood floors, concrete foundation, built-up roof; Estes W. Mann, Archt., Cotton Exchange Bldg., Memphis, Tenn. 12-1

D. C., Washington—District Commissioners, District Bldg., receive bids Dec. 15 for drill tower at Engine House No. 8; 20,230 cu. ft.; plans and specifications and proposal forms at Room 427.

Fla., Daytona Beach—City, Walter A. Richards, City Mgr., ready for bids for 2 band shells, dock and clubhouse for bowlers and improvement of Grandview Ave.; total cost \$18,000.

Fla., Jacksonville—City let contract for \$15,000 fire station No. 11 to H. S. Baird, 3612 Oak St.; Mark & Sheftall, Archts., 210 Clark Bldg.

Fla., Orange City—City, P. D. Woods, Clk., defeated \$75,000 city hall and fire department bonds. 11-24

Fla., Orlando—Jas. B. King, Archt., Box 191, drawing plans for prison camp near Orlando.

Fla., Pinellas Park—Town Commrs. plan \$50,000 bond election, including amounts for small jail, remodeling town hall and for additional office equipment.

Fla., Stuart—Martin County Board of Commrs., H. N. Gaines, Chmn., receives bids Dec. 13 for frame living quarters and laundry, County farm site; plans and specifications on file at office E. H. Gibson, County Engr.

Ga., Augusta—City, Raleigh H. Daniel, Mayor, erect \$10,000 ball park and stadium, Allen Park.

Ga., Canton—Following contractors estimating on \$150,000 Cherokee County courthouse, bids opened Dec. 14: LaGrange Lumber and Supply Co., LaGrange, Ga.; Crockett & Pew; A. K. Adams Co., Walton Bldg., all Atlanta; D. D. Thomas & Son, 463 N. Dunlap St., Memphis, Tenn.; A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta. 11-17

Ga., Canton—Following contractors estimating on \$150,000 Cherokee County courthouse, bids opened Dec. 14: LaGrange Lumber & Supply Co., LaGrange, Ga.; Crockett & Pew; A. K. Adams Co., Walton Bldg.; A. J. Krebs Co., Walton Bldg.; W. P. Francis, 133 Luckie St.; J. S. McCauley Co., Bona Allen Bldg.; Griffin Construction Co., 308 Spring St.; Norwood Griffin Co.; Pittman Construction Co., Rhodes Bldg.; Wagar & Co., Inc., 8 E. Ellis St., all Atlanta, Ga.; D. D. Thomas & Son, 463 N. Dunlap St., Memphis, Tenn., and Atlanta; J. A. Jones Construction Co., Realty Bldg., Charlotte, N. C.; F. P. Heifner, Sebring, Fla.; C. G. Kershaw Construction Co., Woodward Bldg., Birmingham, Ala.; Harrison Construction Co., 235 N. E. 36th St., Miami, Fla.; John F. Dupree Sons Co., Rome, Ga.; Batson-Cook Co., West Point, Ga.; Joe W. Stout & Co., Inc., Sanford, N. C.; J. L. Crouse, American Bank Bldg., Greensboro, N. C.; Geo. B. Davis, Box 242, Rome, Ga.; H. & H. Construction Co., Coral Gables, Miami; A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta. 11-17

Ga., Thomasville—Georgia Board of Public Welfare recommended addition to wing to

Thomas County Jail. Address Thomas County Board of Commrs.

Ky., Louisville—Clark County Board of Commrs., Geo. C. Kopp, Judge, may expend \$33,000 for remodeling courthouse, jail and sheriff's residence.

Mo., Clayton, St. Louis—St. Louis County defeated \$750,000 jail and courthouse office space bonds. 11-10

N. C., Franklin—Macon County Board of Commrs., J. R. Cabe, Chmn., probably have plans ready Jan. 1 for bids on brick, rein. concrete, struct. steel, limestone and marble trim courthouse and jail; cost \$300,000; Jas. J. Baldwin, Archt., Asheville. 9-29

N. C., New Bern—Chas. C. Wilson, Archt., Palmetto Bldg., Columbia, S. C., reported, drawing plans for \$130,000 World War memorial building.

Okla., Oklahoma City—City voted \$75,000 bonds for fire dept. and equipment. Address City Council. 11-3

Tenn., Lebanon—Wilson County remodel jail; 3-in. concrete floors and ceilings, asbestos shingle roof, toilets, bathing facilities, 64 cells; Pauly Jail Building Co., Contr., 2215 De Kalb St., St. Louis, Mo.

Tex., Coleman—City, F. P. Scarborough, Mayor, votes Dec. 14 on \$45,000 city hall and fire station bonds.

Tex., Fort Worth—City, O. E. Carr, City Mgr., votes Jan. 10 on \$5,300,000 bonds, including \$1,500,000 for municipal auditorium and site.

Tex., Henderson—Rusk County, T. T. Watson, Judge, votes Dec. 22 on courthouse bonds; structure cost \$175,000, rein. concrete, brick and stone; Corneli G. Curtis, Archt., 1603 Post-Dispatch Bldg., Houston; A. E. Thomas, Asso. Archt., 330 Wilson Bldg., Dallas. 11-3

Tex., Vernon—Wilber County, J. V. Townsend, Judge, votes Dec. 29 on \$375,000 courthouse bonds; Voelcker & Dixon, Archts., Kahn Bldg., Wichita Falls. 11-24

Tex., Yoakum—City votes Dec. 21 on \$30,000 bonds for repairs to hospital, city hall, etc.

Va., Bluefield—City Council, E. H. Harman, member, purchased W. R. Morton Bldg., Wister St.; may convert first floor for city hall.

W. Va., Martinsburg—Hose Company No. 4 plans fire station.

Dwellings

Ala., Birmingham—Johnson-Carr Co., Fourth Ave. and 21st St., erect 4 or 5 dwellings, West End Highlands.

Ala., Foley—J. Platt Roberts, Archt., First Nat. Bank Bldg., Mobile, drawing plans for residence for Mrs. Foley.

D. C., Washington—Rev. Cornelius Dacey has \$14,000 permit for 2-story brick addition and repairs to building, 1411-13 V St. N. W.

D. C., Washington—T. A. Jameson, 906 New York Ave. N. W., has \$55,000 permit for 11 brick and tile dwellings, 1727-45 Massachusetts Ave. S. E.; 2 stories.

D. C., Washington—Mrs. R. A. Kearney has \$27,000 permit for brick residence, 2821 Chesterfield Place N. W.; 2 stories.

D. C., Washington—Homer L. Kitt, 1330 G St. N. W., has permit for \$40,000 brick and cinder block residence, 3120 Woodland Drive N. W.; 2 stories.

D. C., Washington—Victor Lehto, 248 Carroll St. N. W., has \$12,000 permit for 2 dwellings, 6802-4 Eastern Ave. N. W.; 1 story.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St. N. W., has \$13,350 permit to repair dwelling and construct boiler rooms and brick addition at rear 1111-13 Seventh St. N. W.

D. C., Washington—E. M. Willis, 2520 10th N. E., has \$25,000 permit for 5 dwellings, 1825-35 Ingleside Terrace N. W.; 2 stories, brick.

Fla., Coral Gables, Miami—B. G. Hitchner, 1120 Chelton Ave., Philadelphia, Pa., erect \$12,000 residence and garage, 2842 De Soto Blvd.; 2 stories.

Fla., Coral Gables, Miami—John A. Cook, 618 Meridian Ave., erect \$35,000 residence and garage, 2508 De Soto Blvd.; 2 stories.

Fla., Homosassa—Fred H. Reekers, 511 Sixth Day, and C. W. Mackenback, 527 Race St., Cincinnati, O., each plan residence.

Fla., Homosassa—Carl and Leo Townsend, 2009 Hewitt Ave. W. H., Cincinnati, O., each erect residence.

Fla., Miami—E. G. Gold, Chicago, Ill., reported, erect \$100,000 residence and garage, North Beach; rein. concrete and stucco, cast stone, 2 stories and basement, 100x80 ft., tile

roof; W. C. DeGarmo, Archt., 39 S. E. Sixth St., Miami.

Fla., Miami Beach—Southern Cross Construction Co. erect 2 dwellings, Isle of Normandy.

Fla., Sebring—Curtiss-Bright Co. erect farm houses, poultry houses, stores, etc., connection with development.

Fla., Tampa—Frost Construction Co., 607 Marion St., erect \$10,000 dwelling, Albemarle Ave.

Fla., Venice—Louis Boujan, Vice-Pres., Nashville Roller Mills, Nashville, Tenn., erect residence.

Ga., Atlanta—A. D. Debord, Candler Bldg., erect 3 brick veneer dwellings, 794-800-804 Helena Ave. S. W.; 1 story; total cost \$13,500.

Ga., Atlanta—Dwight S. McLain, 1911 Peachtree St., erect \$40,000 residence; Pringle & Smith, Archts., Atlanta; plans complete.

Ga., Savannah—Cletus W. Bergen, Archt., Liberty Bank & Trust Bldg., erect \$25,000 residence, 46th St.; English type, 2 stories and basement, brick, hardwood floors, slate or tile roof, 2 baths.

La., Haynesville—F. M. DeLukie erect residence, site DeLukie Hotel, West Haynesville.

La., New Orleans—Redemptorist Fathers alter and repair 3-story brick rectory, 2030 Constance St.; ready for bids about 15 days; plumbing, heating and wiring separate; Andry & Feitel, Archts., Carondelet Bldg.

La., New Orleans—Mrs. C. Carter, 1027 Thayer St., erect raised residence, Conolat and Clara Sts.; A. C. Babins' Sons, Contra., Marine Bank Bldg.

La., New Orleans—Public Belt Railroad Comsn., City Hall Annex, receives bids Dec. 12 for 3 frame 1-story trainmen cottages; concrete foundations, asbestos roofs, wiring and plumbing; following contractors estimating: A. Garrett, Maritime Bldg.; Chas. Gilbert, Canal Bank Bldg.; J. A. Haase, Jr., 916 Union St.; H. F. Hinrichs & Son, Q. & C. Bldg.; Wm. Wallace, 131 N. Jefferson Davis Pkwy.; L. Delarosa, 1680 Agriculture St.; C. E. Newald, 5807 Tchoupitoulas St.

La., New Orleans—Mrs. L. J. Lampton receives bids Dec. 14 at office Jones, Roessle & Olschner, Archts., Maison Blanche Bldg., for Spanish type residence, Canal Blvd. and Conrad St.; frame and stucco, 1 story and basement, 40x80 ft., pine foundation, tile roof, warm air heat. 11-3

La., Shreveport—Following purchased homesites, East Gladstone and Gladstone Park subdivision: W. A. Hammond, 2727 Darien St.; J. Brown; L. N. Gaunt, 239 1/2 Rutherford St.; Mrs. Ollie Reed Oliphant; S. C. Robinson; Mrs. H. Rutherford; E. Knox; H. O. Wall; J. D. Robertson; C. G. Williams; J. R. Pilcher.

Md., Baltimore—Theo. L. Cypull, Evesham Ave., Govans, erect 2 cottages, Walker Ave., E. of York Road.

Md., Baltimore—Thos. J. Donohue, Lexington Bldg., purchased 30 acres; erect dwellings; ultimate plans call for 500 to 600 2-story daylight type dwellings.

N. C., Beaufort—Arthur Barnwell erect \$40,000 residence; brick, 2 stories and basement, wood floors, composition roof, steam heat; Lafaye & Lafaye, Archts., 1224 Sumter St., Columbia.

N. C., Charlotte—O. C. Hoover erect \$10,000 brick veneer residence, 1123 Lexington Ave.; 2 stories.

N. C., Charlotte—R. L. Rutzler, Kinney Bldg., erect residence.

Okla., Tulsa—Adams & Reddin, Exchange Natl. Bank Bldg., erect \$10,000 dwelling, 1626 S. Florence Ave.

S. C., Johnston—S. J. Watson erect \$30,000 residence; brick, 2 stories and basement, hardwood floors, steam heat; C. C. Wilson, Archt., Columbia.

S. C., Travellers Rest—Brandon Mills erect 60 cottages; J. E. Sirrine & Co., Engrs., Greenville.

Tenn., Elizabethton—S. B. Payne and J. W. Anderson, both Bluefield, W. Va., erect 1 duplex; may erect additional duplexes.

Tenn., Memphis—W. Phelps, 1680 Jackson St., erect 2 dwellings, 903-05 Avalon St.; total cost about \$10,000.

Tex., Brownsville—H. M. Skelton, 203 Merchants Bank Bldg., receiving bids for rein. concrete, hollow tile and stucco residence; stone trim, 2 stories, 43x55.6 ft. and 19x21 ft., cement and tile floors; Page Bros., Archts., Austin Natl. Bank Bldg., Austin, and Brownsville. 12-1

Tex., Dallas—J. J. McCook, Athletic Bldg., erect \$10,000 residence, 4209 Versailles Ave.; brick veneer, 2 stories.

Tex., Dallas—Luther E. Sadler erect brick veneer residence, 4420 Fairfax Ave.; 2 stories, cost about \$10,000.

Tex., Dallas—Walter C. Cameron, 601 Live Oak St., erect \$17,000 residence, 4304 Lorraine Ave., Highland Park; brick veneer, 2 stories.

Tex., Dallas—Neth Leachman erect \$15,000 residence, Highland Park.

Tex., Del Rio—Dutch Marlow has low bid at \$22,500 from Ferguson & Wood, San Antonio, for residence; Beverly W. Spillman, Archt., Alamo Bank Bldg., San Antonio.

Tex., Eagle Pass—S. M. Durling, Mgr., J. C. Penney Store, having plans drawn for residence.

Tex., Eagle Pass—H. V. Solomon, Mgr., B. Brenner Store, erect residence, Hillcrest section.

Tex., Fort Worth—Will Granger erect \$10,000 brick veneer residence, 2215 Warner Rd.

Tex., Fort Worth—Dr. Will R. Gayle, Ft. Worth Natl. Bank Bldg., erect \$30,000 brick veneer residence, 337 Rivercrest St.

Tex., Fort Worth—Mobley & Delaney, Texas Natl. Bank Bldg., erect 4 brick veneer dwellings, 2016-2222 Huntington, and 2040 Windsor and 2201 Stanley Sts.; total cost \$54,500.

Tex., Fort Worth—M. J. Bisco, Medical Arts Bldg., erect \$20,000 brick veneer dwelling, 2233 Winton St.

Tex., Herrville—Wm. Saludias, John Gibson and F. Demasters erecting residences.

Tex., Houston—Lee Barnes erect \$12,000 brick veneer duplex and garage; 2 stories, 10 rooms, 2 baths.

Tex., Lubbock—Chas. F. O'Neill erect 4 dwellings; cost \$3750 each.

Tex., Palestine—Frank Price erect residence; ready for bids.

Tex., Quanah—Certainteed Products Co. erect 15 additional dwellings, Mill Town near Quanah.

Tex., San Antonio—W. R. Shaw, 525 W. Kingshighway, soon start work on 2-story rock residence, Sherwood Drive, Green Lawn Estates.

Tex., San Antonio—W. R. Shaw, 525 Kings Highway, erect native stone residence, Greenlawn Estates, Sherwood Drive; 2 stories, concrete foundation.

Tex., San Antonio—A. A. Donnell, 1305 Pasadena St., plans 5-room frame residence, 1100 block Redondo St., Los Angeles Heights.

Tex., San Antonio—Mrs. Leona Impson, 740 Estes St., plans residence, Park Hill Blvd., Park Hill Estates.

Tex., San Antonio—B. W. Ingram, 111 Buena St., Los Angeles Heights, plans 5-room stucco residence, 1800 block W. French Place.

Tex., San Antonio—S. D. Roberts, 926 Hays St., plans frame and stucco bungalow, Ridge-wood Court, Blanco Terrace.

Va., Walkersville—John P. Peterson, Administrator, W. K. Spaur Estate, receives bids Dec. 10 at office Hope Lumber Co. for cottage; plans and specifications at office Co. or from W. C. Harold.

Government and State

D. C., Washington—Office of Public Buildings and Public Parks of National Capital, Col. U. S. Grant, 3d, Director, Navy Bldg., has low bid at \$530,000 from Chas. H. Tompkins Co., 1612 Park Rd. N. W., for building complete to commemorate services of women of United States, etc., in World War; Trowbridge & Livingston, Archts., 527 Fifth Ave., New York.

Ky., Lexington—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids Dec. 27 for mailing vestibule, etc., post office; drawings and specifications from Custodian at site or from office Supervising Archt.

Miss., Jackson—Following contractors estimating on \$60,000 armory for Hinds County Board of Supervisors; bids opened Dec. 7: C. G. Mitchell; McGee & Wetmore, N. O. C. N. Station; Kinard & Hampson; Westerfield & Weeks; John Garrett; I. C. Garber, Medical Bldg., all Jackson; W. R. Ellis, Clarksdale; S. L. McGinnis, Greenwood; Currie & Corley, Raleigh; Frank P. Gates, Archt., Edwards Bldg., Jackson.

Hospitals, Sanitariums, Etc.

Fla., Key West—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., receives bids Dec. 30 for remodeling, etc., hospital and pharmacist's quarters, U. S. Marine Hospital; drawings and specifications from Medical Officer in Charge or at office Supervising Archt.

Ga., Atlanta—Henrietta Eggleston Memorial Hospital, reported, has low bid from J. S. McCauley Co., Bona Allen Bldg., for \$175,000 hospital; Morgan, Dillon & Lewis, Archts., Grant Bldg.

Ga., Atlanta—Martha Brown Memorial M. E. Church erect brick building, Highland Ave.; Chas. Hopson, Archt., Healey Bldg.; Jenkins & Carr estimating.

Ga., Macon—Middle Georgia Sanitarium, Dr. C. C. Harrold, Pres., having plans drawn by Hentz, Adler & Schutze, Archts., Candler Bldg., Atlanta, for \$100,000 Middle Georgia Doctors' Office Building; rein. concrete, brick, semi-fireproof, 3 stories and basement, composition roof; offices, X-ray dept., clinical laboratories, etc.

Ga., Savannah—Additional contractors estimating on medical officers' quarters, U. S. Marine Hospital, bids opened Dec. 19 by Treasury Dept., Washington, D. C.; R. J. Whalley, Inc., 404 Bay St.; T. R. Worrell, 101 E. 40th St.; Arley Co., 504 E. Bay St., all Savannah; Geo. Griffiths Construction Co., 705 Olive St., St. Louis, Mo.; H. B. Trauger Construction Co., Lakeland, Fla.; W. P. Francis, 201 Lusk St. N. W.; Smythe & Co., 1416 F St. N. W., both Washington; D. F. Brandon, James Bldg., Chattanooga, Tenn.; Theriault Contracting Co., 503 E. Johnson St., Philadelphia, Pa.; Charleston Engineering and Contracting Co., 58 Broad St., Charleston, S. C.; Lane Ogle, Inc., 12 Murray St., New York; Suburban Contracting Co., 344 E. Second St., Moorestown, N. J.; D. D. Thomas & Son, 463 N. Dunlap St., Memphis, Tenn.; Suburban Contracting Co., Port Clinton, Ohio; A. C. Samford, Shepherd Bldg., Montgomery, Ala.; Chas. Weitz's Sons, 713 Mulberry St., Des Moines, Iowa.

Ga., Statesville—Bulloch County Board of Comms., R. K. Kennedy, Clk., plans \$40,000 hospital.

La., Monroe—Tuberculosis and Public Health Assn., G. B. Colley, Pres., interested in tuberculosis sanatorium for Ouachita Parish.

La., New Orleans—Hotel Dieu (hospital) has plans about completed for chapel, S. Prieur St. and Tulane Ave.; contract let to Geo. J. Glover Co., Inc., Whitney Bank Bldg.; brick, terra cotta, cast stone trim, 2 stories, pile foundation, tile floors and wainscoting, Promenade tile, marble work, waterproofing, hollow tile partitions, steel and iron work, kalamain doors and frame, composition roof; Andry & Feltel, Archts., New Orleans Bank Bldg.

Mo., Clayton, St. Louis—St. Louis County voted \$1,000,000 hospital bonds.

Tex., Houston—Emergency Clinic and Hospital, Dr. E. B. Kenner, Post-Dispatch Bldg., member, erect \$35,000 building; brick and stucco, 2 stories, 90x36 ft.

Tenn., Knoxville—Knox County, S. O. Houston, County Judge, and Poor Farm Commission consider \$75,000 to \$100,000 sanatorium, Maloneyville.

Hotels and Apartments

Ala., Birmingham—J. H. Morris, 3550 Almont Road, opens bids Dec. 20 for \$85,000, 3-story, brick, 120x42 ft., 12-unit apartment building at 30th St. and 13th Ave.; concrete foundation, wood floors, tile roof, equipment and furnishings cost \$6200; address all proposals to H. D. Breeding, Archt., 110½ 21st St. North. See Want Section—Building Materials and Equipment.

Ala., Selma—Hockenbury System, Inc., Harrisburg, Pa., made survey of city to determine needs of hotel; result not yet announced. Address H. H. Frazier, Sec. Chamber of Commerce.

Ala., Talladega—Mrs. Ida Elliott opens bids Dec. 16 for three 2-story, brick veneer, 78x34 ft. apartment houses; 4 units each, \$22,000; equipment and furnishings cost \$4000; cement tile roofing, concrete foundations, oak and tile floors; address all proposals to H. D. Breeding, Archt., 110½ 21st St. North, Birmingham. See Want Section—Building Materials and Equipment.

D. C., Washington—Young & Oppenheimer have permit for 2-story, brick apartment house at 786 Morton St. N. W.; cost about \$10,000.

Fla., Hampton Springs—Arnold Joerns and associates purchased Hampton Springs Hotel and property; will remodel.

Fla., Jacksonville—H. O. Cruce has permits for three \$3000, 2-story, frame flats for E. Hammerman, 1420 Spearing St., at 1335-39-47 Spearing St.

Fla., Jacksonville—A. L. Wadkins, 32d St., has permit for \$10,000, 2-story, brick veneer apartments at 1543 Robinson St., for C. O. Little.

Fla., Lakeland—F. P. Bennel erect \$20,000

apartment building; H. D. Mendenhall, Archt., Box 711.

Fla., Pensacola—Frank P. Allen, temporary address, San Carlos Hotel, erect three apartment buildings on Lakeview Blvd.; cost \$35,000.

Ky., Louisville—W. M. Culter, 2517 Lakeside Dr., has permit for \$12,000, brick apartment building, 616-18 Magnolia St.

Ky., Louisville—Joseph & Joseph, Archts., 800 Frances Bldg., preparing plans for \$800,000, 11-story, 140x150-ft., reinforced concrete, fireproof apartment building, Spring Drive and Bonny Castle, for P. & B. Apartment Co.; concrete foundation, wood floors, composition roof, vacuum steam heating; open bids Jan. 2. See Want Section—Building Materials and Equipment.

Ky., Louisville—W. M. Culter erect \$12,000 brick apartments at 616-10 Magnolia St.

Miss., Centerville—E. Fassman, Mgr. of Centerville Ice and Cold Storage Co., plans to erect 2-story, brick and steel, 30-room hotel building.

Mo., Kansas City—Harry E. Fisher of Fisher Building Co., 618 Commerce Bldg., purchased property at 1212 Linwood Blvd.; plans to erect 9-story apartment hotel this winter.

Mo., Kansas City—Charles E. Phillips, 609 Victor Bldg., purchased 180 ft. of Broadway frontage facing Valentine Road; reported, planning 10-story apartment building; also planning two 8-story apartment hotels, Armour Blvd. and Central St.

Mo., Kansas City—William D. Snyder, 817 Commerce Bldg., soon start work on two 9-story apartment hotel buildings, Inwood Blvd. between Troost Ave. and Harrison St.; each have lobby, elevator, heating plant, ground floor shops; each building have 88 apartments, bachelor suites and hotel rooms; concrete frame and brick curtain walls, terra cotta ornamentation; P. T. Drotts, Archt., 423 Reliance Bldg.

N. C., Charlotte—Lex Marsh, Jr., 24 E. Fourth St., has permits for two \$10,000, 2-story, brick veneer, 4-family apartment houses, 2108 Avondale Ave. and 2136 Sarah Marks Ave.

N. C., Charlotte—Mrs. R. O. Alexander, 303 Park Ave., erect \$15,000, 2-story frame, brick veneer, 4-family apartment, 305 E. Park Ave.

N. C., Ellenboro—Ellenboro Manufacturing Co. planning apartment house to care for added force and officials.

N. C., Fayetteville—J. Scott McFaydem plans to erect Spanish type, brick and stucco, four 4-room apartment house on Hinsdale Ave.

S. C., Folly Beach—Seashore Operating Co., John C. Davis, Pres., and James F. Curran, Sec.-Treas., construct buildings for use as hotel and dancing pavilion, restaurant, bathing pavilion and amusement center.

Tenn., Memphis—L. E. Finley, 1130 Tutwiler Ave., contemplates erecting \$25,000, 2-story and basement, brick veneer, 8-apartment building, location not stated; composition roof, oak floors, tile baths; Sieg & McDaniel, Archts., First Natl. Bank Bldg.

Tex., Fort Worth—S. H. Sankary, 1515 N. Ballinger St., erect \$14,000 brick veneer apartment house at 1524 W. Cooper St.

Tex., Llano—Hockenbury System, Inc., Harrisburg, Pa., successfully completed campaign, raising \$61,700 for construction of community hotel; promoted by Board of Directors of Chamber of Commerce.

Tex., San Angelo—J. V. Howell, Wichita Falls, acquired property at E. Concho Ave. and S. Magdalen St., plans to develop; considering hotel, apartments and stores.

Tex., San Antonio—Miss Ella M. Jones, 1607 W. Craig Place, contemplates erecting stucco, 4-apartment house, Kings Court near E. Mulberry Ave.; architect not selected.

Tex., San Antonio—J. P. Morris, 811 Brady Bldg., receives bids Dec. 10 for labor and material on brick work, plumbing, wiring, gas steam heating, refrigeration, tile floors, tex-stone decoration and roofing, on \$40,000, 2-story, 8-suite apartment building, Erie St.; W. A. Miller, Archt., Builders Exchange Bldg.

Tex., Wichita Falls—Mrs. L. M. Boyd, 1820 Ninth St., erect \$25,000 apartment house at 1822-24 Ninth St.

Miscellaneous

Ark., Van Buren—Fred Harris, Tulsa, Okla.; J. H. Anderson, Independence, Kansas; A. A. Stillwell, Muskogee, Okla., trustees for Christian Churches of Arkansas, Kansas, Oklahoma, Missouri and Texas, purchased 10-acre tract in Haven Highlands for assembly grounds and summer camp.

Ga., Albany—Barron G. Collier and Thad Huckabee, developers of Skywater Estates, plan \$50,000 clubhouse.

Miss., Ocean Springs—Chicago Golf Club soon break ground for \$50,000 clubhouse.

Miss., Poplarville—Business and Professional Women's Club, Bertha Provost, Sec.-Treas., reported, let contract Jan. 1 for clubhouse.

N. C., Winston-Salem—Phyllis Wheatley Home for colored girls planning \$25,000, brick, 2-story unit.

Tex., Edinburg—Edinburg Country Club soon start work on \$30,000, 80x90-ft., Spanish type, brick and tile clubhouse; R. L. Vogler, Archt.

Tex., San Antonio—Charles Dubose of International Refining Co., Frío City Rd.; John C. Kirkwood of Kirkwood & Wharton, 456 Main St., and M. H. Braden, 3518 Lakeview St., incorporating Hot Wells Tourist Park Co. with \$160,000 capital; will develop sanitarium property on South Loop for tourists' quarters; to have minimum of 75 three and four room apartments.

Tex., San Antonio—Mexican Casino Club, care E. R. Lozano, 213 E. Cevallos St., contemplates erecting Mexican Casino Club at Camden St. and Romano Plaza; architect not selected.

Va., Richmond—George S. Barnes, 5500 Huntington Ave., Newport News, contemplates erecting stadium for baseball, football, etc.

Va., Roanoke—Louis Philippe Smithey, Archt., prepared sketch of proposed stadium, pending sale of 1600 tickets; seating capacity 37,750.

Ga., Sparta—Hancock Fair Assn., W. J. Harley, Pres., planning to erect new exhibit building.

Railway Stations, Sheds, Etc.

Ark., Paris—Fort Smith, Subiaco & Rock Island Railroad Co., Fort Smith, plans to erect new station and improve terminal facilities.

Schools

Ala., Birmingham—Board of Education, D. E. McKinley, Business Mgr., 2320 Eighth Ave. North, receives bids Dec. 16 for additions to following elementary schools: Acipco, Bush, Glen Iris, Kennedy and Council; also for following new buildings: Minnie Holman and Woodrow Wilson; bids invited on one building, all or any number of buildings; also combination bids; work to be divided as follows: General work; plumbing, sewerage and gas fitting; heating and ventilation; electric work; plans and specifications from Warren, Knight & Davis, Archts., Empire Bldg.; William B. Ittner, Consult. Archt., Bd. of Education Bldg., St. Louis, Mo.

Ark., Little Rock—Pulaski County Board of Education, D. T. Henderson, Supt., erect Halstead Consolidated School in Ellis township.

Fla., Bartow—Polk County Board of Public Instruction, A. B. Connor, Sec., P. O. Box 391, call election Dec. 29 in Bartow Special Tax School District No. 7, on \$340,000 bonds for Senior High Grammar school and brick school for negroes. 12-1

Fla., Pahokee—Palm Beach County Board of Public Instruction, West Palm Beach, approved preliminary plans for \$35,000 to \$40,000, 2-story, tile and stucco, 8-room and gymnasium-auditorium junior high school building; Harvey & Clarke, Archts., 307 S. Olive St., West Palm Beach.

Fla., St. Augustine—St. Johns County Bd. of Public Instruction receives bids Dec. 19 for Fullerwood Elementary School at Russell and Colony Sts. and Hildreth Ave.; \$90,000, 2 stories and basement, 173x106 ft. reinforced concrete, stucco exterior, hollow tile walls, structural steel trusses over auditorium; A. Ten Eyck Brown, Archt., and A. Barillo, Jr., Asso. Archt., 717-20 Forsyth Bldg., Atlanta; following contractors estimating: St. Augustine Building Co., City Bldg.; E. J. Masters, 14 Sargossa St.; H. B. Nelson Co., and John B. Spaulding, all St. Augustine; Grahn Construction Co., 133½ Magnolia Ave., Daytona Beach; W. P. Thurston Co., Miami; W. T. Hadlow Co., 32 W. Forsyth St.; D. D. Thomas & Son, Lutz Bldg.; Christopher Construction Co., 608 Riverside Ave., and Arthur Perry, Jr., 214 Avondale Ave., all Jacksonville.

Ga., Atlanta—Druid Hills School Dist. votes Jan. 9 on \$250,000 school bonds. Address School Trustees. 11-24

Ga., Atlanta—Building Committee of Ga. School of Technology receives bids Jan. 10 for erection of dining hall extension; drawings

and specification from Bush-Brown & Gailey, Archts., Dept. of Architecture.

Ga., Tifton—School Board receives bids Dec. 12 for \$45,000, 1-story and basement, U-type, brick Consolidated School building; steam heat, hardwood floors, slate or composition roof; Daniell & Beutell, Archts., Healey Bldg., Atlanta.

La., Baton Rouge—W. T. Nolan, Archt., Canal Bank Bldg., New Orleans, completing plans and specifications; soon call for bids on 2-story, reinforced concrete, stone trim, pressed brick, fireproof parochial school building for St. Joseph's Boys' Congregation; 18 classrooms, composition flat roof, plastered interior, steel sash, structural and miscellaneous steel work, metal lath.

La., New Orleans—Orleans Parish School Board, City Hall Annex, receives bids Jan. 6 for 3-story, reinforced concrete, brick and stone trim addition to Beauregard School on Canal between N. Olympia and Murat Sts.; 8 classrooms, composition roof, plastered interior, steel and iron work, wood floors; plans and specifications from E. A. Christy, Supv. Archt., Parish School Board, City Hall Annex.

Md., Baltimore—Dr. David E. Weglein, 2400 Linden Ave., Supt. of Public Instruction, announced erection of new building for Brehm Lane School, No. 231, being considered as one of first projects to be undertaken out of \$10,000,000 school loan.

Miss., Jackson—Millsaps College planning construction of \$50,000 to \$100,000 concrete stadium.

Miss., Lexington—Mayor and Board of Aldermen call election Dec. 17 on \$60,000 bonds, for new High School building. 11-10

Miss., West Point—Board of Education has plans in progress by George Mahan, Jr., American Bank Bldg., Memphis, for \$65,000, 2-story and basement, reinforced concrete, brick and cast stone trim High School; concrete foundation, composition roof, structural steel and miscellaneous iron.

Mo., Jefferson City—Board of Education receives bids Dec. 20 for West Central school; cost \$60,000.

N. C., Kinston—Negro Free Will Baptist College planning \$300,000 construction program; include administration building and dormitories to be completed in units.

N. C., Raleigh—North Carolina State College receives bids Dec. 9, for Civil Engineering Building and Physics Building; \$180,000, brick and concrete, built-up roof, steam heat, wood and concrete floors, stone trim, structural steel frame, tile, concrete, wood and terrazzo floors; Hobart Upjohn, Archt., Grand Central Terminal, New York, and Ross Shumaker, Asso. Archt., 14 Enterprise St., Raleigh.

N. C., Samarcand—Samarcand Manor, Mrs. J. R. Page, member, Board of Directors, plans rebuilding Carroll Dormitory, recently burned.

Okla., Ada—Board of Education, Mabel Browall, Clerk, has plans in progress by Albert Ross, for \$190,000 High School building. 11-10

Okla., Elmer—Board of Education has low bid from Stone & Johnson, Hobart, at \$12,716, for school building; Clay Riggins, Archt., Anadarko.

Okla., McAlester—Board of Education plans 2-room addition to Second Ward grade school and junior high school; election Dec. 15 on \$90,000 bonds.

Okla., Oklahoma City—City, E. M. Frye, Mgr., voted \$1,700,000 school bonds; J. R. Barton, Supt. of Schools. 11-24

Tenn., Memphis—Board of Education receives bids Dec. 30 for \$485,000, 3-story and basement, reinforced concrete Crockett Technological High School; accommodate 1000 students, auditorium seat 1300, built-up roof, concrete floors, stone trim; Harker & Cairns, 123 S. Court St., and Joe T. Wallace, Bank of Commerce Bldg., Archts.; furnishings cost \$48,000. 11-17

Tenn., Trezevant—Carroll County Board of Education, Huntington, will erect addition to Christmasville High School.

Tex., Austin—Ex-Students' Association, T. W. Gregory, Houston, Pres., start campaign about Jan. 1 to raise \$500,000 to supplement \$600,000 appropriated by University of Texas Board of Regents, to build 3 student union buildings on University campus; Will C. Hogg, 4410 Rossmore Blvd., Houston, and H. J. L. Stark, Orange, members of Board of Regents, pledged active support. 11-3

Tex., Canyon—West Texas State Teachers College Board of Regents, W. O. Flowers, Pres., Lockhart, has low bid from James T. Taylor, First Natl. Bank Bldg., Fort Worth, at \$203,976, for 3-story, brick, stone, steel and reinforced concrete, fireproof Educational and Recitation Building; E. F. Rit-

tenberry, Archt., 301 Blackburn Bldg., Amarillo. 11-10

Tex., College Station—Agricultural and Mechanical College Board of Directors will erect library building to be named for late Col. E. B. Cushing.

Tex., Houston—Rice Institute contemplates erecting alumni memorial building; endowment fund of \$500,000 to be raised during next 15 years; I. S. Kalb, Sec. of Committee; Cram & Ferguson, Boston, Mass., and Wm. Ward Watkin, Archts.

Tex., Lasara—Lasara Independent School Dist. School Trustees erect 4-room and auditorium school building; \$25,000 bonds voted.

Tex., Prairie View—Prairie View College for Negroes planning to construct girls' dormitory.

Tex., Raymondville—Lasara Independent School District Board of Trustees receives bids Dec. 14 for \$25,000, 1-story, 6-room and auditorium school at Lasara, near Raymondville; R. Newell Waters, Archt., Security State Bank Bldg., Weslaco.

Tex., Stephenville—John Tarleton Agricultural College will erect \$100,000 assembly hall.

Va., Danville—Hughes Memorial School erect school for boys and dormitory, cost \$80,000.

Va., Richmond—School Board, W. Floyd Reams, Chmn., receives bids Dec. 28 for East End Junior High School; Doric design, 36 units, accommodate 1000 pupils; Charles M. Robinson Co., Archts., Times-Dispatch Bldg. 11-10

Va., Woodstock—Massanutten Military Academy, Col. Howard J. Benchoff, headmaster, launched drive for \$150,000 for enlargement.

W. Va., Bluefield—Board of Education of Pentecostal Holiness Church, Chmn., Franklin Springs, Ga., considering site for proposed school and junior college to be erected by West Virginia-Virginia Conference of the Church.

W. Va., Montgomery—Board of Education receives bids Dec. 20 for \$165,000 High School and 2 dormitories; fireproof, steam heating; Wyson & Bengston, Archts., Professional Bldg., Charleston. See Want Section—Bldg. Materials and Equipment. 11-24

Stores

Fla., Miami—R. D. Wirt, 2200 Park Ave., Miami Beach, purchased lot on Washington Ave.; will erect \$10,000 commercial building.

Ga., Buckhead—W. L. Reiley have plans this week by Wm. J. J. Chase, 140 Peachtree St., Atlanta, for 1-story, brick stores building; wood floors, plate glass, composition roof.

Ga., Waycross—T. J. Darling and C. D. Parker are figuring revised plans for 3-story, brick, concrete and steel, 82x65 and 35x10 ft. store building for H. C. Bunn; Roy A. Benjamin, Archt., Bisbee Bldg., Jacksonville, Fla.

La., New Orleans—William R. Burk, Archt., Balter Bldg., completing plans, soon call for general contract bids on 2-story, 31x54 ft., frame and stucco store and residence building on Canal Blvd., for John Grisaffi; tile roof, plastered interior.

Md., Baltimore—M. H. Momberger contemplates erecting 3 stores at 3638-42 Old York Road.

Miss., Natchez—Mrs. Ella O'Farrell soon start work on business building, St. Catherine St.

Miss., Vicksburg—S. H. Kress & Co., 114 Fifth Ave., reported, will erect \$150,000 store building.

Mo., Kansas City—Brothers Credit Clothing Co., 1219 Grand Ave., leased 2-story building at 1226 Grand Ave.; will build new terra cotta front.

N. C., Charlotte—McClellan Stores Co., 455 Seventh Ave., New York, will raze buildings at 23-31 N. Tryon St., replace with store structure.

N. C., Greensboro—Isaac Silver & Bros. Co., 120 Fifth Ave., New York, leased building at S. Elm and W. Washington Sts. and will remodel.

Okla., Watonga—Pametickey & Womack plan early construction of brick store building on E. Main St.

Tenn., Johnson City—Parks-Leggett Department Store, John G. Parks, Pres., will remodel and redecorate 3-story and basement building on Market St.

Tenn., Memphis—New Bry's Mercantile Establishment, Edward M. Solomon, Pres., soon have plans by E. L. Harrison, Fidelity Bank Bldg., for remodeling present structure and erecting 6-story and basement addition,

Jefferson and Main St.; \$350,000, reinforced concrete, structural steel, brick exterior, stone trim, built-up roof, concrete and wood floors, plate glass, hollow tile back-up walls, fireproof, elevators, power plant, electrical and mechanical equipment.

Tex., Beaumont—American Natl. Bank, C. H. Stroeck, cashier, soon let contract for 1-story, 15x50 ft. building to adjoining bank.

Tex., Del Rio—Walter Jones has low bid from Ferguson & Wood, at \$22,500, for 2-story, 80x70 ft., brick, reinforced concrete and cast stone trim store and office building; Beverly W. Spillman, Archt., Alamo Bank Bldg., San Antonio. 11-24

Tex., San Antonio—Charles Steffler expend \$10,000 remodeling 2-story, brick flatiron building at Alamo and Presa Sts.; 5 stores on ground floor, rooms above; L. Harrington Co., Archt., Builders Exchange Bldg.

Tex., Wichita Falls—Orville Bullington, 601 Filmore St., erect \$10,000 business building at 300 Ohio St.; Taylor Bros. Construction Co., Contr.

W. Va., Bluefield—Dr. C. M. Fisher, owner of old Hotel Graham property, reported, will replace with business block.

Theaters

Md., Catonsville—Catonsville Theater Corp., Arthur P. Peterson, Sec., 515 Cathedral St.,

Baltimore, has plans by John J. Zink, 2316 Overland Ave., Baltimore, for \$50,000 to \$60,000 theater; equipment \$20,000 to \$30,000; steel, masonry.

Warehouses

La., Haynesville—Garret Brothers plan to erect brick warehouse.

N. C., Charlotte—Lowe-Stephens Co. erect \$28,000, 2-story, brick, tile storage warehouse, 537 W. Fifth St.

Tex., Coleman—H. O. Whooten Grocery Co. soon start work on \$50,000, fireproof, brick warehouse.

Tex., Fort Worth—Montgomery Ward & Co., W. H. McCauly, Engr. of Construction, Chicago, Ill., have plans ready for figuring Dec. 1st, work to start about Jan. 15 on \$2,000,000 building at Camp Bowie Blvd. and Carroll St.; concrete exterior, buff colored, reinforced concrete, flat slab type construction, steel sash, sprinkler system, fire alarm system, fireproof; contain 550,000 sq. ft., 8 stories, U-shaped with 80-ft. court in center, switch tracks in court, 360x220 ft.; show windows will be built across entire front and retail store will occupy first and second floors of west wing, entire eighth floor of east side will be devoted to clerical offices; west wing of eighth floor for cafe, doctor's offices, library and recreation rooms; plans by Construction Dept. 12-1

1601 Thirty-eighth and 3700-19 Reservoir Rd. N. W.; 2 stories, brick and stone; owner builds.

Fla., Jacksonville—W. B. Young, Jr., 401 Clark St., erect 2-story brick veneer residence, Pine St. near Talbot St.; cost about \$10,000; owner builds.

Fla., Jacksonville—Dr. C. A. Knight, Professional Bldg., let contract at \$28,246 to A. L. Clinton, Blum Bldg., for brick residence, San Jose; 2 stories and basement, hardwood floors, composition and tile roofs; Marsh & Saxelbye, Archts., Consolidated Bldg. 11-10

Fla., Miami—F. S. Benedict started work on residence, Ocean Front sub-division; cost about \$10,000.

Ga., Atlanta—J. R. Roberts, 1580 Rogers Ave. S. W., erect \$10,000 residence, 1726 Stokes Ave. S. W.; brick veneer, 2 stories, 9 rooms, 2 baths, composition roof, hot air heat; C. H. Bowden, Contr., 1254 Princess Ave. S. W.

Ga., Atlanta—Interstate Holding Co. erect 10 brick veneer dwellings, 1000 and 1100 blocks, Hawthorne Drive N. E.; 1 story, 32x32 ft., brick foundations, composition shingle roofs; total cost \$40,000; P. D. Christian, Inc., Contr., both 324 Wynne-Claughton Bldg. 12-1

Ga., Atlanta—J. Kuniansky, 1040 W. College Ave., Decatur, erect 3 brick veneer dwellings, 637-43-47 Amsterdam Ave. N. E.; 1 story, 4 rooms and bath, composition roof, hot-air heat; total cost \$18,000; day labor.

Ga., Atlanta—J. B. Richardson, 139 Ellis St. N. E., erect 2 brick dwellings, 84 Alden Ave. and 680 Lexington Ave. S. W.; 1 story, 6 rooms and bath, composition roof, hot air heat; total cost \$10,000; owner builds.

Ga., Gainesville—Mrs. H. H. Dean erect brick veneer residence; 2 stories and basement, 5000 sq. ft., hardwood floors, slate roof, steam or vapor heat; Ivey & Crook, Archts., Candler Bldg., Atlanta; owner builds; Mr. Prater, Supt.

Ky., Lexington—Rox Savage started work on \$14,000 duplex, Ransom Ave., near Main St.; brick, stone foundation, 10 rooms.

Ky., Louisville—Mrs. Clarence R. Mengel, Columbia Bldg., erect \$30,000 Normandy type residence, Hawthorn Highlands; stone and stucco, 1½ stories; E. T. Hutchins, Archt., 418 S. Fifth St.; G. R. Grimes, Asso. Archts.; Allen Benedict, Contr., Realty Bldg.

La., New Orleans—Aetna Homestead Assn., Hibernia Bldg., erect \$11,000 duplex, Octavia and Lopez Sts.; Walter W. White, Contr., 3543 Louisiana Ave.

La., New Orleans—L. Rosengarten, 1818 Cadiz St., erect double cottage, 1820-22 Cadiz St.; R. J. Walker, Contr., 2232 Cadiz St.

La., New Orleans—E. Anderson, 3123 Milan St., erect 2-story frame duplex, Milan St. near Roman St.; A. J. Traub, 4720 Conti St.

La., New Orleans—M. Raitman, 1524 Baronne St., erect 2-story frame duplex, Millandon St. near McCarthy St.

Md., Baltimore—F. W. Jones erect \$10,000 brick residence and garage, 3906 Hadley Square West; 2½ stories, 34x34 ft. and 18x18 ft., hot water heat; Clarence L. Jarvis, Contr., 3806 Woodbine Ave.

Md., Baltimore—Geo. Benkert, Builder, Caton Ave., purchased property adjoining Benkert's Park; erect 50 or 60 daylight type dwellings; brick, 2 stories, about 60x40 ft.; wood floors, steam heat; roofing not determined; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Plaza Construction Co., Munsey Bldg., erect 36 brick dwellings, 400-34 and 401-35 Elsinor Ave.; 2 stories, 27x36 ft., 23x35 ft. and 19x33 ft.; slate roofs, hot water heat; total cost \$54,000; E. L. Gonyon, Archt.; owner builds.

Md., Baltimore—G. E. Thomas erect 6 brick dwellings, 4241-51 Wickford Rd.; 2 stories, 22x38 ft. and 22x34 ft., tin roofs, steam heat; total cost \$36,000; Cyril H. Hebrank, Archt., 3 E. Lexington St.; owner builds.

Md., Baltimore—John J. Hurst, 7 St. Paul St., erect 4 frame dwellings and garages, Tyler Ave., near Oakley Ave., and Clover Rd. near Cornhill Rd.; 2 stories, 22x26 ft., 26x30 ft. and 24x24 ft.; garages 9x18 ft.; 2 stories, slate roofs, hot-water heat; total cost \$18,000; J. K. Vickers, Archt.-Engr., 706 Gladstone Ave.; owner builds.

Miss., Ocean Springs—A. Ziegenfelder, Contr., started work on first unit of bungalows courts; cost \$75,000; 8 cottages; service buildings; tile roofing, Horace White, Southern Bldg., New Orleans.

Mo., Clayton, St. Louis—C. H. Bayless erect \$14,000 brick residence, Ladue Rd.; 30x50 ft.; J. M. Higbee, Archt., 4164 Delmar

BUILDING CONTRACTS AWARDED

Association and Fraternal

Md., Baltimore—Wm. A. Imbach & Sons, 1101 Pennsylvania Ave., has hot water heating, oil burner and plumbing contract for \$24,000 residence for Carey W. Lindsay, 2104 Park Ave.; electrical work, Enterprise Electric Co., 4 W. Barre St.; Cyril H. Hebrank, Archt., 63 Central Savings Bank Bldg.; Henry W. Hitchcock & Sons, Contr., 1720 E. Lafayette Ave. 12-1

Miss., Greenville—Young Men's Christian Assn. let contract to F. C. Owens for building; 40x68 ft. gymnasium, etc., tile; L. W. Lathrop, Archt., Weinberg Bldg. 11-10

N. C., Asheville—Asheville Lodge, I. O. O. F., erect \$40,000 lodge building; white face brick and terra cotta, steel and rein. concrete, 3 stories and basement, 40x100 ft., concrete and wood floors, composition roof, steam heat; Wm. J. East, Archt.; Catawba Construction Co., Contr., both Technical Bldg.

Bank and Office

Ga., Atlanta—General Motors Corp., Detroit, Mich., and New York, erect 2-story, 40x205-ft. office building, connection with construction of Chevrolet assembly plant; Albert Kahn, Inc., Archt., 1004 Marquette Bldg., Detroit, Mich.; Seaboard & Southern Construction Co., Jacksonville, Fla.; excavation, Nichols Contracting Co., 1281 LaFrance St., Atlanta; struct. steel, Indiana Bridge Co., Muncie, Ind.

Okla., Shawnee—Warren-Smith Hardware Co. has heating and plumbing contract at \$14,500 for \$200,000 State National Bank Building; wiring, Oklahoma Electric Supply Co., \$3875; E. J. Peters, Archt.; G. P. Carr Construction Co., Contr. 12-1

Okla., Tulsa—J. L. Heath Plumbing & Heating Co., 415 S. Kenosha St., has heating and plumbing contracts for Oklahoma Natural Gas Co. office building; electrical work, Dodge Electric Co., 318 S. Boulder St., 2 passenger and 1 freight elevator, Otis Elevator Co., 228 E. Third St., cut stone, Consolidated Cut Stone Co., 1323 E. Fifth St., all Tulsa; granite, Cold Spring Granite Co., Cold Spring, Minn.; terra cotta, Northwestern Terra Cotta Co., 2525 Clyburne Ave., Chicago, Ill.; structure concrete, brick, stone and terra cotta, 10 stories, 50x140 ft., built-up roof; A. M. Atkinson, Archt., Mid-Continent Bldg.; O. N. Roads, Engr.; Shallenberger Construction Co., 1631 E. Sixth St., gen. contract at \$570,000; placing footings. See Want Section—Building Material and Equipment. 11-24

Tex., Houston—Stevens Sash and Door Co., 820 Ennis St., has millwork contract for \$750,000 Houston Natl. Bank Bldg.; Hedrick & Gottlieb, Archts., Post-Dispatch Bldg.; Don Hall Construction Co., Contr., Cotton Exchange Bldg. 11-17

Tex., Houston—Robt. Voightlander, 1612 Miller St., Houston, has contract for bronze and steel passenger elevator fronts for 3-story and basement, first unit of \$1,250,000 structure; bank fixtures, Lane & Tweed, 502 Walsix Bldg., Kansas City, Mo., at \$12,837; Jos. W. Northrop, Jr., Archt., West Bldg.,

Houston; Alfred C. Bosson, Asso. Archt., 680 Fifth Ave., New York; Don Hall Construction Co., Contr., Cotton Exchange Bldg. 9-29

Churches

Ga., Atlanta—Seminole Avenue Church of Christ, N. A. Hunter, Chmn. of Board, started work on building.

Ga., Baxley—Methodist Episcopal Church started work on \$60,000 building; brick and stone, 3 stories, concrete foundation, tile roof; Daniell & Beutell, Archts., Healey Bldg., Atlanta; G. E. Piles, Contr.-Engr., P. O. Box 144; hot air heating, electrical work and plumbing not let. 11-24

S. C., Columbia—W. B. Guimarin & Co., 1224 Sumter St., has plumbing contract for \$100,000 Washington Street M. E. Church Sunday school; Casey & Fant, Archts., N. Main St., Anderson; Lafaye & Lafaye, Asso. Archts., 1224 Sumter St., W. A. Cray & Son, Contr., 1226 Sumter Street, both Columbia. 12-1

S. C., Saluda—W. S. Barstow & Co. started work on church.

Va., Danville—Main Street Methodist Church installing \$18,000 pipe organ.

City and County

Ga., Buena Vista—Marion County Board of Commrs. let contract at \$14,316 to W. C. Fulford, Columbus, for alterations and addition to courthouse; T. W. & E. O. Smith, Archt., Georgia Home Bldg., Columbus. 10-27

Tex., Beaumont—Union Art Mosaic and Tile Co., 2003 McKinney St., Houston, has terrazzo, marble and tile work contract for \$300,000 city hall; F. W. Steinman & Sons, Archts., San Jacinto Life Bldg., Beaumont; J. H. Reddick, Contr., Kennedy Bldg., Fort Smith, Ark. 9-22

Tex., Hereford—City completed foundation for \$25,000 city hall, jail and fire station building; semi-fireproof, brick, 2 stories, concrete floors, tar and gravel roof; E. F. Rittenberry, Archt., Blackburn Bldg.; Geo. Parr, Contr., 115 W. Sixth St., both Amarillo; address proposals on furniture, jail equipment, etc., to E. S. Ireland, Mayor. 11-10

Tex., Mabank—City let contract to H. L. Allison for city hall and fire station.

Tex., Stinnett—Hutchinson County Commissioners' Court let contract at \$341,888 to C. S. Lambie & Co., Amarillo Bldg., Amarillo, for courthouse; 3 stories and basement; jail on top floor; heating, plumbing and electrical work in gen. contract; W. C. Townes, Archt., Old Post Office Bldg., Amarillo. 11-10

Dwellings

Ala., Birmingham—John B. Carr and Bethel Whitson, both care Johnson-Carr Co., Fourth Ave. and 21st St., each erecting residence and garage, West End Highlands.

Ala., Opelika—John J. Ingram, Jr., erect residence, N. Fifth St.; Opelika Lumber and Construction Co., Contr.

D. C., Washington—Shannon & Luchs Construction Co., 1435 K St. N. W., has \$160,000 permit for 16 dwellings, 1600 Thirty-seventh,

Blvd.; Higbee Brothers Construction Co., Contr., Central Bank Bldg.

Mo., St. Louis—J. P. Fendler, 6007 S. Kingshighway, erect 9 brick dwellings, 5615-17-21-25-27-31-35-39 and 5701 Lisette St.; 1 story, 28x42 ft., slate roofs, hot air heat; total cost \$54,000; A. F. Stander, Archt., 6028 S. Kingshighway; owner builds.

N. C., Winston-Salem—Frank Lunn let contract to Sapp & Grogan for English type residence, West View Development; 2 stories, stucco, 8 rooms; Northup & O'Brien, Archts., Starbuck Bldg.

Okla., Oklahoma City—F. E. Patterson, care Patterson & Hoffman, 12 W. Main St., completed excavation for \$40,000 residence; hollow tile and stucco, 2 stories, 40x65 ft., hardwood floors, concrete foundation, tile roof; Harry Reynolds, Archt.-Constr. Supervisor, 209 Magnolia Bldg.; day labor. See Want Section—Building Material and Equipment.

Okla., Tulsa—Abbott & Welch, Box 1661, erecting first 5 of 25 dwellings, Harvard Heights; brick veneer, 1 and 2 stories, about 30x45 ft., oak floors, poured concrete foundations, shingle roofs, gas heat; cost \$4200 to \$5000 each; Jas. E. Harmon, Archt., Box 1661. 12-1

Okla., Tulsa—R. C. Schultz, 1203 S. Quincy St., erect 11 brick veneer dwellings, S. Evanson St., between 12th and 13th Sts.; 3 about completed; 6 rooms, bath, built-in rear porch and refrigerator room, 1 story, about 1600 sq. ft. each, poured concrete and tile foundations, shingle roofs; R. A. Teasley and H. A. Eichenberger, Archts.-Constr., 1202 S. Quincy St.; electrical work, Tulsa Chandler Co., 119 S. Boston St.; plumbing, Berry Carter, 1129 S. Florence St.; plastering, J. R. Sliagar, R. F. D. 11-24

S. C., Greenville—Ernest Jones erecting stone veneer residence, Garraux St.

S. C., Greenville—Mrs. E. W. Hard started work on residence, 609 Arlington Ave.

S. C., Greenville—H. J. Martin, Contr., McCullough Heights, erecting 6 dwellings north of Garratt St.

S. C., Greenville—T. G. Sanders erecting 2 stucco dwellings, Garraux St.; cost \$5000 each; 1 and 2 stories.

Tenn., Chattanooga—J. Frank Harrison, Pres., Chattanooga Bottle and Glass Mfg. Co., let contract to Selman & O'Brien, Georgia Ave., for \$100,000 residence, Riverview; Pringle & Smith, Archts., Norris Bldg., Atlanta, Ga.; work started. 12-1

Tex., Amarillo—Dewitt Alexander erect brick veneer residence, 3305 S. Van Buren St.; 2 stories, 8 rooms, shingle roof; T. E. Alexander, Contr.

Tex., Amarillo—J. H. Allen erect 1-story residence, 1104 N. Harrison St.; John Brodie, Contr.

Tex., Amarillo—W. E. Shinkle erect brick veneer residence, Oliver-Eagle addition; cost about \$10,000; 2 stories, 8 rooms, shingle roof; T. E. Alexander, Contr.

Tex., Eagle Pass—Emillon Kifure, owner, Eagle Pass Overall Factory, erecting residence; 3 stories and basement, 16 rooms.

Tex., Harlingen—J. C. Tom erecting \$13,000 residence; W. R. Varner, Archt.; W. H. Burk, Contr.

Tex., Harlingen—Joe R. Roberts started work on \$10,000 residence; W. R. Varner, Archt.; E. E. Harrison, Contr.

Tex., Houston—Geo. Ackels erecting 2 brick veneer duplexes 2400 Driscoll St.; 2 stories, 10 rooms, cost about \$7500 each.

Tex., Houston—E. J. Burke Co., First Natl. Bank Bldg., erecting 3 dwellings, 3242 Rosalie, 4710 Farmer and 4623 Orange Sts.; frame, 5 rooms.

Tex., Houston—Dr. G. H. Spurlock, Keystone Bldg., started work on \$30,000 residence, River Oaks; 2 stories, 10 rooms, 2 baths; John McLelland, Archt., West Bldg.; A. D. Langham, Contr., 3250 Delmar Dr.

Tex., Laredo—James Pappas let contract for 6 dwellings; cost \$4000 to \$5000 each; total of 75 or 80 dwellings planned; to be built in units of 6.

Tex., Mercedes—C. F. Archer erecting 2 frame dwellings, S. Texas Ave.; 1 story, 28x30 ft. and 30x33 ft., hardwood floors, cement foundations, shingle roofs, cost \$4000 and \$4500; Martham Lumber Company, Contr. 11-17

Tex., Pharr—W. M. Horn started work on 2 dwellings; total cost \$15,000.

Tex., San Antonio—Hugo A. Stein, Bldr., Travis Bldg., erect number additional dwellings, Myrtlelawn.

Tex., San Antonio—V. B. Chapman, 815 W. Elsmere Place, plans 5-room frame residence, 827 Hollywood Ave.; owner builds.

Tex., Wichita Falls—C. W. Cahoon, Jr., care Carson Petroleum Co., City Natl. Bank

Bldg., let contract to W. H. Allen, 1300 Fifth St., for \$17,000 residence, 602 Fillmore St.; brick veneer, 1 story; Pate & Thompson, Archts., City Natl. Bank Bldg.

Tex., Wichita Falls—Hudgins Electric Co., 907 Lamar St., has electrical work contract for \$25,000 residence for C. H. Parker, 611 Indiana St.; plumbing, Geo. Dummark; brick work, R. W. Oakley, 2113 Polk St.; painting, Lewis & Lester; plastering, E. F. Seitz, 2208 Brook St.; Harris H. Roberts, Archt.-Engr., Harvey-Snyder Bldg.; Carr & Blakemore, Contrs., 609 1/2 Seventh St.; foundation in. See Want Section—Building Material and Equipment. 11-24

Government and State

Ala., Birmingham—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract at \$14,700 to Deitz Construction Co. for remodeling first and second story of post office and courthouse. 11-3

Hospitals, Sanitariums, Etc.

Ark., Hot Springs National Park—Constructing Quartermaster let contract at \$16,900 to J. L. Powers, Bennettsville, S. C., for outside distribution system of heating system.

Ga., Augusta—City let contract at \$146,540 to H. B. Nelson Construction Co., Coral Gables, Fla., for nurses' home at University Hospital; rein. concrete, brick and tile, 3 stories, composition floors, concrete foundation, Barrett specification roof; Scroggs & Ewing, Archts., Southern Finance Co. Bldg., Augusta; W. C. Spiker & Co., Engrs., Forsyth Bldg., Atlanta, Ga. 12-1

La., New Orleans—Edw. Chassaniol, 633 Baronne St., has composition roof contract for \$200,000 James M. Batchelor Bldg., Presbyterian Hospital; wiring, Barnes Electric Construction Co., 513 Gravier St.; reinforced and structural steel, Truscon Steel Co., Canal Bank Bldg.; marble, Albert Weiblen Marble & Granite Co., 521 City Park Ave.; millwork, National Sash & Door Co., 600 N. Dupre St.; glazing, Pittsburgh Plate Glass Co., 314 G'rod St.; plumbing and heating, S. Antoine, 1034 St. Claude Ave.; plastering, E. Chronister, 5020 Annunciation St.; steel sash, Southern Builders Material Co., Maison Blanche Bldg.; Rathbone DeBuys, Archt., Thos. H. Brockman, Contr., both Hibernia Bldg. 12-1

Md., Henryton—Maryland Tuberculosis Sanatorium excavating for administration wing; brick foundation, terra cotta walls, stucco and plaster, 3 stories, 112x90 ft., wood floors, brick foundation, slate roof; also alter existing buildings; Buckler & Fenhagen, Archts., 325 N. Charles St., Baltimore; North-Eastern Construction Co., 612 Lexington Bldg., Baltimore, gen. contract at about \$65,000, exclusive of mechanical equipment. 12-1

N. C., Wrightsville Sound—Baby Hospital, Inc., Thos. H. Wright, Pres., let contract to George W. Kane, Roxboro and Jefferson Bldg., Greensboro, for \$90,000 hospital to replace burned structure; plumbing and heating, W. R. Doshier, 107 N. Third St., Wilmington; electrical work, T. J. Burns & Co., Greensboro; fireproof, buff brick, Spanish mission tile roof; 2 stories with open air porches above; Chas. C. Hartmann, Archt., Jefferson Bldg., Greensboro. 10-20

Tenn., Nashville—St. Thomas Hospital has permit for \$100,000 obstetrical dept.; 3 stories, kitchen and dining room on first floor, delivery room on second, patients' rooms above; Foster & Creighton, Contrs., Fourth & First Bldg.

Hotel and Apartments

Ala., Birmingham—O. J. Manor let contract to T. C. Brasfield, Fairfield, Ala., for \$100,000, 2-story and basement, 100x105 ft. apartment house; brick exterior, frame and steel joist, built-up roof, hardwood and cement floors; E. D. Slater, Archt., Martin Bldg.

Fla., Jacksonville—E. Hammerman, 609 W. Adams St., let contract to H. O. Cruce, 206 W. 29th St., for three \$3000, 2-story, frame flats, Spearling between Third and Fourth Sts.

Fla., Jacksonville—Herbert Parrish, 314 Duval Bldg., erect \$9000, 2-story, brick and frame flats, Myra between King and James Sts.; owner builds.

Fla., Palm Beach—George W. Langford Co., Contrs., McAllister Hotel, Miami, and Columbia Bldg., Louisville, Ky., let following sub-contracts on \$100,000 improvements being made to Alba Hotel, Carl Snyder, Mgr.: Electrical work, Capital Electric Co.; plumbing, H. W. Thorne, 1704 Georgia Ave.; terrazzo work, Zinni Tile Co., 4112 S. Polinsettia St.; glass, Palm Beach Mercantile Co.; painting and decorating, Cowart & Avriett. 11-3

Ga., Atlanta—Swords Realty & Investment

Co., 957 Crew St., erect \$12,500, 1-story and basement, brick veneer, 4-apartment house at 1158 Stewart Ave. S. W.; 4 rooms and bath each; day labor.

Ga., Atlanta—Piedmont Hotel, Peachtree and Luckie Sts., let contract to Beeler & Co., Johnson City, Tenn., for extensive alterations and repairs; new furnishings, etc.; remodel ground floor for stores; final plans in progress by Pringle & Smith, Norris Bldg. 11-24

Ga., Atlanta—Fitzhugh Knox & Son, Norris Bldg., started work on apartment building on Peachtree Road; 3 units each 3 stories and basement, total 36 apartments, brick veneer, wood joists, stone trim, built-up roof, steam heat, hardwood and concrete floors; R. S. Monday, Archt., Norris Bldg.; owners build.

La., New Orleans—Peter Gulotto and Reliance Homestead Assn. let contract to Anthony Bissant, 8333 Pritchard Place, for \$36,000, 14-efficiency apartment building, St. Charles and Pleasant Sts.

La., New Orleans—Sciambra & Masino, 636 N. Broad St., received heating and plumbing contract at \$178,238, and Bunn Electric Co., Jung Hotel on Canal and Howard Sts.; Weiss, 835 Baronne St., electric wiring contract, at \$40,800, on 18-story addition to Jung Hotel on Canal and Howard Sts.; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg.; O. M. Gwin Construction Co., Contrs., Union Indemnity Bldg. 11-17

Mo., Kansas City—Ground Development Co., 1320 Commerce Bldg., constructing second floor of \$1,250,000, 12-story, concrete and steel, 140x96-ft. apartment hotel, Linwood Blvd. and Harrison St.; heating and plumbing to Garney Plumbing & Heating Co.; electric work, LaPierre Electric Co.; P. T. Drotta, Archt., Reliance Bldg.; K. H. Middendorf, Engr., 506 Inter-State Bldg.; owners build. 12-1

Mo., St. Louis—Cytron & Gassmer, 5637 St. Louis St., erect two 2-story, 35x45 ft., brick tenements, 5822-28 Roosevelt Place; \$15,000, composition roofs, warm air heat; owners are Archts.-Builders.

Mo., St. Louis—Margaret Realty Co., 904 Chestnut St., let contract to J. Rubin, 904 Chestnut St., for \$17,000, 3-story, brick, 48x47 ft. tenement at 4415 Pershing St.; tar and gravel roof, steam heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—I. Weinberg, 3863 W. Pine St., erect \$40,000, 3-story, brick, 44x145x90 ft. tenement, 329 N. Taylor St.; tar and gravel roof, steam heat; M. L. Latner, Archt.; Weinberg Construction Co., Contrs.; both 3863 W. Pine St.

N. C., Asheville—C. A. Plonk, 21 Blake St., let contract to L. W. Hill, 229 Broadway, for \$30,000, 2-story, brick veneer, 44x72 ft. apartment house on W. Chestnut St.; Albert C. Wirth, Archt., Flat Iron Bldg.

N. C., Charlotte—Wesley T. Heath Corp., 11 E. Third St., erecting \$70,000, 40-room Lombardy Apartments, Hillside Drive and East Boulevard.

Tenn., Knoxville—Seaton & Webb, 11 Journal Arcade, let contract to W. A. Hart, 400 W. Church St., for \$30,000, 2-story, brick, 40x60-ft. apartment house at 1813 Laurel Ave.; brick foundation, tile roof; equipment and furnishings cost \$2000. 12-1

Tex., Paducah—J. L. Helm let contract to D. N. Leaverton, Lubbock, for \$105,000, 3-story, 75x140 ft., fireproof hotel; reinforced concrete faced with brick and Micolithic cast stone, reinforced concrete foundation, composition roof, cement and Micolithic flooring, equipment and furnishings cost \$20,000; address equipment proposals to J. H. Pickney, Cliff Hotel, Dallas; steam heating to Texas Automatic Spinkler Co., Magnolia Bldg.; plumbing, R. B. McQueen, 3512 Granada St.; electric work, Emerson-McClure Electric Co., 314 N. Harwood St.; all Dallas; electric passenger elevator (Otis or American) included in general contract; E. C. Smith & Sons, Archts., 914 College Ave.; Concrete Engineering Co., Constr. Industries Bldg.; both Dallas. See Want Section—Building Materials and Equipment. 11-24

Va., Norfolk—W. V. H. Williams, 403 Crawford St., let contract to Johnson Construction Co., Inc., Law Bldg., for 3-family apartment, 4807 Colonial Ave.; cost \$16,000, brick; Phillip B. Moser, Archt., Law Bldg.

Miscellaneous

Md., Salisbury—Green Hill Country Club, E. Dale Adkins, Chmn. Bldg. Comm., let contract to J. Henry Parsons for clubhouse; cost \$10,000.

Miss., Jackson—Harry N. Austin, Archt., 301 Daniel Bldg., let contract to Westerfield & Weeks, Lamar Bldg., at \$20,000, for 2-story, 40x70 ft., brick and reinforced con-

crete boys' home at Mississippi Methodist Orphanage, B. F. Lewis, Supt. 10-27

Mo., Mountain Home—Immanuel Children's Home, J. E. King, member Board of Directors, has broken ground for \$15,000, 2-story, stone building.

S. C., Charleston—M. L. Stephenson, 1155 King St., received contract at about \$6000, for tin roofing on Florence Crittenton Home Building, on which work has been delayed; soon ask bids for completion. 1-3-24

Schools

Ala., Gadsden—Alabama School of Trades and Industries Board of Control, Watt T. Brown, Chmn., 1905 Fourteenth Ave. South, Birmingham, will erect 70x130-ft., 1-story, brick, factory type printing shop; owners build with student labor. See Want Section—Building Materials and Equipment. 11-10

Fla., Titusville—Brevard County Board of Public Instruction resumed work on new High School building; J. E. Easterley, Contr.

Ga., Jonesboro—School Board let contract to Crockett & Pew, Red Rock Bldg., Atlanta, for 1-story and part basement, brick and wood joist school building; composition shingle roof, wood floors; Cyril B. Smith, Archt., Bona Allen Bldg., Atlanta.

Md., Baltimore—School Board, C. P. Walford, Clerk and Supervisor of Public Schools, let contract to J. T. Nuckols, 1101 E. Main St., at \$79,000 for 2-story and basement, 32x66-ft. additions to J. E. B. Stuart and Patrick Henry Schools; metal joists and concrete, wood and terrazzo floors, tin roof; contract to H. A. Lucas at \$106,000 for 3-story addition to Armstrong Colored High School; slag roof; Charles M. Robinson Co., Archts., 1002 Times Dispatch Bldg. See Want Section—Building Materials and Equipment. 11-17

Md., Baltimore—Consolidated Engineering Co., Inc., Contrs., 20 E. Franklin St., let following subcontracts for Welch Medical Library at Johns Hopkins Medical School: Plumbing, heating and wiring, H. E. Crook Co., Inc., 28 Light St.; reinforcing steel and steel pans, Truscon Steel Co., Standard Oil Bldg., Edw. L. Tilton, Archt., 141 E. 45th St., New York. 12-1

Md., Glendale—Prince Georges County Board of Education, Nicholas Orem, Supt., Upper Marlboro, let contract to Burton A. Ford, College Park, for \$10,000, one-story, 86x24-ft. brick school; start work Dec. 10; wood floors, composition roof, concrete foundation; Linthicum & Linthicum, Archts., Holly Hill, Raleigh, N. C.

Mo., Webster Groves (Ind. Br. St. Louis)—Missouri Rolling Mill Corp., 6800 Manchester St., St. Louis, has contract for 125 tons structural steel, for 5-story and basement building at Webster College, Plymouth and Lockwood Sts.; Gillespie & Daly, Contrs., 714 International Life Bldg. 11-10

N. C., Charlotte—School Board let contract to T. C. Thompson & Brother, 609 N. Smith St., at \$89,250 for Myers Park Grammar School; heating to Charles Christian, Myers Park, at \$14,750; plumbing, J. A. Haley & Sons, 305 W. 5th St., at \$3385; Charles C. Hook, Archt., Johnston Bldg. See Want Section—Building Materials and Equipment. 11-17

N. C., Durham—Southern Engineering Co., 1559 E. Washington St., Louisville, Ky., received contract for 325 tons structural steel for Union Building, Duke University. 11-3

N. C., Winston-Salem—Winston-Salem Teachers' College for negroes let contract to W. H. Fetter, Realty Bldg., for \$27,000, 2-story, 26-room dormitory.

Okla., Goodwell—Panhandle Agricultural & Mechanical College, Albert W. Fanning, Pres., laying brick for \$115,000, 3-story, brick and concrete, 145x68-ft. Science and Agriculture Building; concrete floors and foundation, concrete roof; equipment and furnishings cost \$50,000; will purchase \$10,000 worth of equipment at this time; Layton, Hicks & Forsyth, Archts., Oklahoma City; Bailey-Burns Constr. Co., Contrs., Norman. 11-24

Tenn., Knoxville—Tennessee School for the Deaf, Mrs. H. T. Poore, Supt., let contract to W. A. and J. E. Gervin, 220 W. Clinch Ave., at \$44,000, for 2-story, brick, 110x93-ft. gymnasium; Marr & Holman, Archts., Stallman Bldg., Nashville. 9-15

Tenn., Memphis—University of Tennessee Medical College let contract to W. W. Wessell Construction Co., 388 N. Front St., at \$267,750, for new Pharmacy and Library buildings, Union Ave. and East St.; Library, 3 stories and basement; Pharmacy, 4 stories and basement; reinforced concrete and structural steel, hollow tile back-up, stone trim, steel and wood sash, built-up roof, elevators,

steam heat, concrete and terrazzo floors; heating to Hughes Heating Co., 672 Madison St., \$25,866; plumbing to Rhodes Bros., 560 Madison St., \$24,408; wiring to McCrory Electric Co., 63 S. Third St., \$15,780; Jones & Furbinger, Archts., 110 Porter Bldg.

Tenn., Nashville—Board of Education, Hume-Fogg High School Bldg., let contract to M. & Q. Construction Co. at \$133,686 for annex to Tarbox Junior high school, and to Foster & Creighton Co., 4th and 1st Blvd., at \$139,360 for Negro Junior high school; Henry C. Hibb, Archt., American Trust Bldg. 11-10

Tex., Canyon—Board of Regents of West Texas State Teachers College, T. O. Walton, Pres., let contract to James T. Taylor, First Nail Bldg., Fort Worth, at \$210,976, for 3-story, 210x100 ft., Education Building; reinforced concrete with brick and stone walls; heating and plumbing to H. E. Persons, Amarillo; E. F. Rittenberry, Archt., 301 Blackburn Bldg., Amarillo. 11-10

Stores

Ala., Florence—Karl and S. F. Schall will erect two 1-story, brick store buildings on Seminary St.; owners build.

Ala., Montgomery—M. Sabel & Sons, Coosa St., let contract to Anderson Lumber Co., 1420 N. Court St., for \$15,000, 2-story, 25x90 ft., brick store building; Frederick Ausfeld, Archt., Shepherd Bldg. 11-25

D. C., Washington—W. C. & A. N. Miller, 1119 17th St. N. W., let following contracts for 3-story, 40x40-ft. store and apartment building, 111-13 17th St. N. W.: Electric work, W. R. Mikerell, Clarendon, Va.; plumbing, 923 12th St. N. W.; limestone, Samuel Miller, Inc., 23 H St. N. E.; structural steel, Union Iron Works Co., 1212 12th St. N. W., all Washington, D. C.; tin or slag roof, concrete foundation, terrazzo and oak floors; plans by owner. See Want Section—Building Material and Equipment.

Fla., Miami—Charles Dougherty purchased property on Washington Ave., near Espanola Way; work started on \$10,000, 1-story building.

Fla., Winter Haven—Central Florida Gas Corp., Ralph B. Wagner, Pres., started work on \$12,000, 2-story, steel and stone tile sales and office building, N. Third St.; 25x100 ft., concrete foundation, built-up roof; equipment and furnishings cost \$3000; R. B. Wagner, Engr., 231 Sunset Rd., West Palm Beach; owners build. 11-17

Ga., Augusta—A. A. Logan, 819 Union St., let contract to W. S. Hornsby, 1518 Twiggs St., for \$10,000, 2-story, brick store and office building; metal roof.

Ga., Douglas—Douglas Produce Co. let contract to R. M. McEachren, Valdosta for 50x100-ft., brick store building on Ashley St.; built-up roof, wood floors.

La., New Orleans—Blattman-Weeser Sheet Metal Works, Inc., 1001 Toulouse St., received contract at \$3642 for ventilating 8-story Max Barnett Furniture Co. building, for which R. P. Farnsworth & Co., Maritime Bldg., have Gen. Contract; Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg. 11-24

Okla., Oklahoma City—V. V. Harris and Charles N. Taylor let contract to C. G. Beveridge, 601 W. 34th St., for building at Ninth St. and Hudson Ave.

Tex., Bay Town—Mrs. Emma Bolan let contract to H. A. Owens, Goose Creek, for \$25,000, 2-story, 68.9x91.9 ft., brick store and apartment building, on which excavation has started; electric work, Cook Electric Shop; plumbing, City Plumbing Shop, both Goose Creek; cement and wood floors, tar and gravel roof, concrete foundation.

Tex., Belton—Sam A. Bashara, 414 Avondale Ave., Houston, remodeling First Station bank building for store and offices.

Tex., Edinburg—Howard Tewell let contract to P. P. Ewing for \$30,000, one-story, 70x135 ft., brick, hollow tile and stucco store building.

Tex., Houston—Don Hall, 522 Cotton Exchange Bldg., erecting \$50,000, 1-story, concrete, 70x160-ft. store building, Richmond Road and Main St.; concrete floors and foundation, composition roof; electric work to Eugene Ashe Electric Co., 1704 Dowling St.; plumbing, Modern Plumbing & Electric Co., 506 Rusk St.; Hedrick & Gottlieb, Inc., Archts., Post-Dispatch Bldg.

Tex., Los Fresnos—W. B. Palmer erecting three 2-story, frame and stucco business buildings, Ocean and Arroyo Blvds.

W. Va., Clarksburg—Andy and Matt Vigilanco and Fred Turina, of Fairmont, let contract to Meigs C. Shinn, 102 Baker Ave., for enlarging and remodeling property at 108 W. Pike St.; \$10,000.

Theaters

Fla., Winter Park—Arthur F. Perry, Jr., 214 Avondale Ave., Jacksonville, has contract for extension and remodeling Baby Grand Theater Bldg., \$40,000; concrete floors, new foyer, lobby, box offices, rest rooms, new furnishings, gas heaters, cooling system; Roy A. Benjamin, Archt., Bisbee Bldg., Jacksonville.

Mo., St. Louis—Aronberg-Fried Co., Inc., Gen. Contrs., 21 East 40th St., New York, let following sub-contracts on \$2,350,000 theater for William Fox, 55th St. and Tenth Ave., New York: Excavation and foundations, Spencer, White & Prentiss, Inc., 1200 Washington Blvd.; structural steel, F. O. B. St. Louis, McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa.; erection of structural steel, Bass Construction Co., Martin Ave. and Bruckner St., Detroit, and 2001 Lakeside Ave., Cleveland, Ohio; architectural terra cotta, Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago; roofing, A. L. Sacheroff Co., 6700 Euclid Ave., Cleveland; sheet metal and Campbell windows, Campbell Metal Window Corp., 453 Book Bldg., Detroit; ornamental iron and bronze, Kalamein work, Tinclad doors and hollow metal, revolving doors, elevator enclosures and cabs, The Tyler Co., E. 36th St. and Superior Ave., Cleveland; Scagliola and art metal, J. Martinelli, 321 Eleventh St., Carlstadt, N. J.; terrazzo and Alundum, L. Del Turco & Bros., Inc., Cleveland Ave. and Third St., Harrison, N. J.; heating, ventilating, vacuum, plumbing and refrigeration, A. R. Brueggeman Co.; electrical work, exit signs, Hatfield Electric Co., both Keith Bldg., Cleveland, Ohio; Gypsum roof, United States Gypsum Co., 17 State St.; acoustical treatment, Johns-Manville Corp., 41st St. and Madison Ave.; metal toilet partitions, Hart & Hutchinson Co., 501 Fifth Ave.; glass and glazing, glass jewels, G. Rae & Co., 173 Prince St.; Vitreous tile, Adolph Grant & Co., 153 E. 44th St.; stage and orchestra lifts, Peter Clark, Inc., 534 W. 30th St.; elevators and signals, Otis Elevator Co., 11th Ave. and 26th St., all New York City; concrete work, masonry, setting terra cotta, caulking, setting granite, rough carpentry and rough hardware, tile and Gypsum partitions, weatherstrips, setting millwork, application of finished hardware, Boaz-Kiel Construction Co., 409 Seventh St.; floor sills and finishes and mastic floors, H. A. Dailey Contracting Co., 413 Louderman Bldg.; millwork and Celotex, Lecoutour Bros. Stair Mfg. Co., 3176 Brannon Ave.; finishing hardware, miscellaneous iron, Builders Iron Work Co., 309 Dornas St.; furring, lathing and plastering, John Rowan Plastering Co., 411 Seventh St.; marble work, Bradbury Marble Co., 3401 Morganford Rd., all St. Louis; C. Howard Crane & Associates, Archts., Struc. and Mech. Engrs., Michigan Theater Bldg., Detroit, Mich.; Weinberg & Welshoff, Inc., Consult. Struc. Engrs., 247 Park Ave.; R. E. Hall & Co., Consult. Mech. Engrs., 231 W. 43rd St., both New York. 8-11

Warehouses

Ga., Statesboro—Statesboro Tobacco Warehouse Co., Cecil W. Branden, Pres., reported, let contract to S. J. Proctor for two \$12,000 warehouses.

La., Shreveport—Maurice Barron let contract at \$28,886 to J. M. Brown, 210 Milam St., for 2-story, 75x142 ft., reinforced concrete and brick warehouse; Seymour Van Os, Archt., Merchants Bldg.

Miss., Gulfport—O. K. Transfer Co., W. H. Fayard, Mgr., let contract to Fred Rea for \$10,000, 1-story, reinforced concrete, brick, fireproof storage building, 28th Ave. between 13th and 14th Sts.; plumbing, roofing and metal windows to Hamilton Brothers, \$1505; electric wiring to John Clancy, \$145; Shourds & Bean, Archts., Bank of Gulfport Bldg. 11-24

Okla., Oklahoma City—C. E. Huffman & Son, Contrs., let following sub-contracts on \$50,000, 3-story, brick and concrete warehouse for Cain Co.: Millwork, Tibbs-Dorsey Mfg. Co., 911 S. Walker St.; painting, A. Hollday; plumbing and heating, J. D. Mann, 214 N. Harvey St.; wiring, Oklahoma Electrical Supply Co., 209 W. First St.; stone, Davis Cut Stone Co.; brick, United Clay Products Corp., 218 N. Harvey St.; steel, J. B. Klein Iron & Foundry Co., 1006 W. Second St.; Hawk & Parr, Archts., Cotton Exchange Bldg. 10-27

Tex., San Antonio—Heath-Kinsey Construction Co., 401 Builders Exchange Bldg., contemplates early construction of 1-story, frame warehouse, Brazos and Menchaca Sts.

Tex., Venon—E. H. Pigz let contract to Clark & Priest at \$21,250 for 1-story, brick, concrete and steel, 90x110-ft. warehouse; concrete floors and foundation, Barrett roof; address equipment proposals to Goodner Wholesale Grocery Co., Wichita Falls; R. H. Stuckey, Archt. See Want Section—Building Materials and Equipment. 11-3

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Air Compressor.—Birmingham Engine and Machinery Corp., Birmingham, Ala.—Wants motor driven air compressor, 2 stage, 800 cu. ft. capacity; prefer Hardie-Tynes Mfg. Co.

Buhr (stone) Mill.—Russell Engineering Co., Charles S. Russell, Box 1, Opalocka, Fla.—Wants one small buhr (stone) mill to grind corn into meal; consider erecting corn mill in Miami.

Drill Sharpener.—L. J. Breed Equipment Co., James Bldg., Chattanooga, Tenn.—Wants second-hand No. 50 Ingersoll-Rand drill sharpener.

Garage Equipment, etc.—Lipscomb Motor Co., Clio, S. C.—Wants prices complete shop equipment for repairing and servicing automobiles, trucks and tractors; steel bins for parts, etc.

Gasoline Handling Equipment.—Sydnor Pump & Well Co., 1310 E. Main St., Richmond, Va.—Wants data and prices on equipment for handling gasoline in conjunction with dry cleaning plants and especially equipment that is approved by Fire Underwriters Assn.

Pulverizer.—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants Raymond pulverizer, high side, four roller type preferred; will consider other types.

School Supply Equipment.—South Florida School Supply Co., Box 146, Allapattah, Miami, Fla.—Wants catalogs on school supply equipment.

(1) **Bolt Threader**—Landis

(2) **Cars**—10 to 12 standard gauge, 12 or 20-yd. dump, steel under-frame preferred; several Roger Ballast or Hart convertible, standard gauge railroad

(3) **Cinder Mills**—1 or 2, for washing slag iron

(4) **Drill**—448-in. radial

(5) **Pipe**—2 to 8-in. steel, almost any quantity

(6) **Rolls**—85 lb. relay

(7) **Shaper**—20 to 24-in.

(8) **Shears**—steel splitting and alligator 2-in. and 4-in. square billet capacity

(9) **Well Drilling Machines**—0 or 2, give make, etc.

W. M. Smith & Co., Birmingham, Ala., want the above equipment.

(1) **Boiler**—250 h.p., horizontal steam, equipped with oil burner

(2) **Engine**—250 h.p. steam

(3) **Generator**—187 kw., A.C. electric

(4) **Motor**—one General Electric or Westinghouse, 60 h.p. slip ring or synchronous electric, 1200 r.p.m. 220 volt, 60 cycle, 3 phase with pulley, size 14-in. diam., 10-in. face, with base, rails and starting compensator complete

(5) **Shaper**—6 speed, size 20 to 26-in.

Southern Prison Co., E. F. Oefinger, Purchasing Agent, San Antonio, Tex., wants the above used equipment.

(1) **Bottling Machine**

(2) **Labeling Machine**

(3) **Mixing Machine**

(4) **Shaking Machine**

Ed L. Hainz, Sec., General Research Laboratories, Inc., S. Ridgewood Drive, Sebring, Fla., wants prices on the above equipment.

(1) **Dryers**

(2) **Engines**

(3) **Filters**

(4) **Pumps**

(5) **Rolls**

(6) **Ties**

(7) **Trucks**—dump, etc.

A. A. Snell, care Jordan Hotel, Marfa, Tex., wants the above equipment and anything pertaining to mining and refining sodium nitrates.

Water Works Equipment.—Layne-Atlantic Co., Seaboard Ry. Bldg., Norfolk, Va.—Wants following material about April for well system at Parkersburg, W. Va.:

Ditching Machine

Reinforcing Bars

Valves.

(1) **Boiler**—35 to 40 h.p. locomotive, not less 125 lb. steam working pressure on wheels or skids, complete with fittings

(2) **Locomotives**—5 to 7 ton, 36-in. gauge gas; and 20 to 22 ton, 36-in. gauge geared, Shay preferred

(3) **Rolls**—60 gross tons of 20 to 25 lb., relaying, Kentucky delivery.

R. P. Johnson (Mchy. Dealer), Wytheville, Va., wants the dealers prices on the above equipment, second-hand.

(1) **Chain**—flat link, not less than 8-in. width, for use in connection with tractor work

(2) **Hubs**—floating, with ball or roller bearing

(3) **Tires**—wide solid, rubber, for use in tractor attachments for trucks

(4) **Wheels**—steel disc automobile and truck H. W. Dexter, care of Chapman Carriage Factory, Jacksonville, Fla., wants the above supplies and desires catalogs and information from manufacturers.

(1) **Beauty Parlor Equipment**

(2) **Permanent Waving Machine**—Eugene

(3) **Roof Garden Equipment and indoor golf course.**

Stafford Department Store, Ashboro, N. C., wants prices on the above equipment.

(1) **Gear Cutting Equipment**

(2) **Machine Shop Equipment**

(3) **Steel Foundry Equipment.**

W. B. Browning, Lyceum Bldg., Memphis, Tenn., wants data and prices on the above equipment to be installed in metal salvage plant.

(1) **Cars**—6-yd., standard gauge, 2-way dump, with steel underframes and steel draft beams

(2) **Conveyor**—troughing belt anywhere from 16 to 24-in., about 70-ft., used equipment preferred.

W. M. Smith & Co. (Mchy. Dealer), Birmingham, Ala., wants the above equipment.

(1) **Pulverizer**—No. 15 American ring

(2) **Magnetic Separator**—18x24 Dings, with 24-in. belt

Hackley Morrison Co., Inc. (Mchy. Dealer), 204 N. Jefferson St., Richmond, Va., wants the above equipment.

Miscellaneous

Pig Lead.—Shelby Supply Co. (Mfrs. Agents Machinery, etc.), Shelby N. C.—Wants to purchase stock pig lead; correspond with manufacturers.

Bowling Alley Equipment.—F. H. Scruggs, care of Scruggs-Scrogan Realty Co., Inc., Masonic Temple, Sanford, Fla.—Wants data and prices on standard bowling alley equipment.

Braid or Fibre (Basket).—Knull Floral Supply Co., Box 2318, Tampa, Fla.—Wants braid or fibre 1 or 2-in. wide, for making baskets.

Cloth.—Portland Asbestos Supply Co., 117 N. Bullitt St., Louisville, Ky.—Wants to purchase 3000 to 4000 yds. cloth at once and will use continuously the following: either 20-20 thread or 20-24 thread, 38-in. wide cloth which is known as "Tobacco Cloth"; correspond with manufacturers.

(1) **Barrels**

(2) **Packing Supplies.**

South Atlantic Fisheries, Inc., Halifax Drive, Port Orange, Fla., wants the above equipment for packing plant.

(1) **Electric Toaster**

(2) **Candy Case**—use with mechanical refrigeration

(3) **Upr or Water Heater.**

Gibson & Co., Inc., Kernersville, N. C., wants the above equipment suitable for small store.

Building Material and Equipment

Carr & Blakemore, Contrs., 609½ Fourth St., Wichita Falls, Tex., want prices on following for \$25,000 dwelling:

Durafilm

Flooring—hardwood, tile

Limestone

Roofing—tile.

Kent K. Kern, Contr., Frankfort, Ky., wants prices on following for \$130,000 girls' dormitory, Kentucky State Industrial College for Negroes:

Flooring—linoleum

Limestone

Tile—hollow.

Harry Reynolds, Archt., 209 Magnolia Bldg., Oklahoma City, Okla., wants prices on following for \$40,000 dwelling:

Cast Stone

Electric Refrigerator

Flooring—hardwood, linoleum, tile

Inclinator

Roofing—tile

Tile—hollow.

Alabama School of Trades, Gadsden, Ala., wants prices on following for printing shop:

Steel Sash and Trim

Wire Glass.

Joseph & Joseph, Archts., 800 Frances Bldg., Louisville, Ky., wants prices on following for \$800,000, 11-story apartment building:

Electric Refrigerators

Elevators

Flooring—hardwood and linoleum

Inclinator

Marble

Roofing—built-up

Tile—gypsum and hollow

Terra Cotta Trim

Ventilators.

Earl L. Stafford, Contr., 502 Broadway, Camden, Ark., wants prices on following for store:

Electric Supplies

Metal Ceilings

Roofing—built-up

H. Richard Elliston, Archt., 3727 Decoursey Ave., Covington, Ky., wants literature and catalogs from manufacturers; also wants prices on following for \$60,000 bank and office building:

Flooring—linoleum

Metal Doors

Roofing—built-up

Tile—gypsum, hollow.

Chas. M. Jones, S. Dunlap St., Paris, Tenn., wants prices on following for \$20,000 building:

Steel—different lengths and strength.

Layne-Atlantic Co., Seaboard Ry. Bldg., Norfolk, Va., has contract for well system at Parkersburg, W. Va., and will want the following material about April:

Cement

Cinder Blocks, etc.

Reinforcing Bars.

D. N. Leaverton, Contr., Lubbock, Texas, wants prices on following for \$105,000 hotel at Paducah:

Cast Stone

Elevators

Metal Elevator Doors

Roofing—built-up.

Northrup & O'Brien, Archts., Starbuck Bldg., Winston-Salem, N. C., wants prices on following for \$60,000 store and office building:

Flooring—composition and tile

Marble

Metal Doors

Roofing—built-up

Steel Sash and Trim

Tile—hollow

Vault Lights

Ventilators

Wire Glass.

Shallenberger Construction Co., 1531 E. Sixth St., Tulsa, Okla., wants prices on following for \$600,000 office building:

Dumb Waiters

Flooring—linoleum, terrazzo, tile

Mail Chutes

Marble

Metal Doors

Roofing—built-up

Tile—gypsum;

Also wants sub-bids on

Millwork

Ornamental Iron

Plate Glass.

Wysong & Bengston, Archts., Professional Bldg., Charleston, W. Va., wants prices on following for High School and 2 dormitories at Montgomery, W. Va.:

Flooring—composition, hardwood, linoleum and terrazzo

Incinerator
Limestone
Roofing—built-up
Tile—hollow
Terra Cotta Trim
Ventilators
Wire Glass.

Consolidated Construction & Building Co., 418 Cleveland St., Durham, N. C., wants prices on following for \$135,000 school:

Flooring—Hardwood (No. 1 maple) and linoleum.

Charles M. Robinson Co., 1002 Times-Dispatch Bldg., Richmond, Va., wants prices on following for school additions:

Flooring—terrazzo
Limestone
Roofing—built-up
Tile—hollow
Ventilators.

R. H. Stuckey, Archt., Vernon, Texas, wants prices on following for \$21,300 warehouse:

Metal Ceilings and Doors
Steel Sash and Trim
Vaults and Vault Lights
Wire Glass.

W. C. & A. N. Miller, 1119 17th St. N. W., Washington, D. C., wants prices on following for 3-story store and apartment building:

Flooring—hardwood, linoleum, terrazzo, tile.

Also wants sub-bids on following:

Millwork
Hardware
Heating
Sheet Metal
Tile Work
Ornamental Iron
Papering
Shades
Gas Stoves
Show Windows.

H. D. Breeding, Archt., 110½ 21st St. North, Birmingham, Ala., wants prices on following for three apartment houses at Talladega, cost \$22,000, and \$85,000 apartment house in Birmingham:

Electric Refrigerators
Flooring—hardwood, linoleum and tile
Incinerators
Mail Chutes
Roofing—tile.

Charles C. Hook, Archt., Johnston Bldg., Charlotte, N. C., wants prices on following for \$100,000 Myers Park grammar school:

Cast Stone
Flooring—hardwood, terrazzo and tile
Metal Doors
Roofing—built-up, slate and tile
Steel Sash and Trim
Tile—hollow clay
Vault
Ventilators.

Rev. C. P. Walters, Box 34, Black Rock, Ark., wants prices on following for church:

Plaster Board
Rolling Partitions (10)
Roofing—asbestos shingle
Ventilators
Wire Glass.

Bids Asked

Air Compressor.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 12 for portable type air compressor, electrically driven.

Amusement Park Concessions.—New Orleans City Park Comn., New Orleans, La.—Receives bids Dec. 10 at office of Secretary, Casino Bldg., City Park for erection and operation of carousel, miniature automobile concessions, etc.

Barges.—War Dept., United States Engineer Office, Montgomery, Ala.—Receives bids Jan. 3, 1928, to furnish, construct and deliver two 80-ft. creosoted wooden decked barges.

Bridges.—Danville, Va. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Graham, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Baltimore, Md. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—State of Georgia receives bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—State of Arkansas receives bids for 5 bridges. See Construction News—Roads, Streets, Paving.

Bronze Powder Paint.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 15 for bronze powder paint.

Brushes (Artists).—U. S. Veterans' Bu-

reau, Supply Div., Washington, D. C.—Receives bids Dec. 8 for 192 artists brushes, round red sable for water colors.

Cabinet.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 1 wood cabinet.

Cases and Tables.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 2 wing mailing cases and tables.

Castings.—U. S. Engr., Huntington, W. Va.—Receives bids Dec. 10 for 790 lbs. of steel castings and 6080 lbs. phosphor bronze castings.

Chemicals.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 21,975 lbs. tri-sodium phosphate and 8,780 lbs. caustic soda.

Clocks.—Depot Quartermaster, Marine Corps, Philadelphia, Pa.—Receives bids Dec. 19 for 350 clocks.

Clocks (8 day).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 19 to furnish 350 8-day clocks, delivery Philadelphia, Pa. Sch. 288.

Commercial Equipment.—Dept. of Education, office of Board of School Comms., Madison and Lafayette Aves., Baltimore, Md.—Receives bids Dec. 14 for commercial equipment.

Culvert.—State of Arkansas. See Construction News—Roads, Streets, Paving.

Desks (Nurses).—U. S. Veterans' Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 14 for 19 nurses' desks without chart racks and 2 with chart compartments.

Desks.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 2 steel lobby desks.

Dredging.—State Roads Comn., John N. Mackall, Chrmn., 601 Garrett Bldg., Baltimore, Md.—Receives bids Dec. 13 to dredge channel at Sinepuxent Inlet, 5 miles south Ocean City, Worcester County, about 4900 ft. long, 150-ft. wide bottom, 3 ft. deep; Cont. WO-35.

Dredge Fill.—Orlando, Fla. See Construction News—Roads, Streets, Paving.

Drills and Grinders.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Receives bids Dec. 13 for electric portable drills and grinders.

Electric Fixtures.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 13 for electric fixtures.

Electric Refrigerators.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 16 for 2 automatic electric refrigerators.

Engine.—U. S. Engr., Huntington, W. Va.—Receives bids Dec. 16 for 1 marine gasoline engine.

Engine.—U. S. Engr., Galveston, Tex.—Receives bids Dec. 23 for 1 vertical propelling engine of full Diesel type.

Gasoline and Oils.—Quartermaster Office, Fort Thomas, (Branch of Newport) Ky.—Receives bids Dec. 20 for 200 gals. gasoline, 100 gals. lubricating oil and 50 lbs. cup grease.

Grader.—W. E. Yancy, Tarrant County Auditor, Fort Worth, Tex.—Receives bids Dec. 12 for 12-ft. road grader.

Grease.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 33,000 lbs. mineral lubricating grease.

Grease (Lubricating).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 20 to furnish 3,000 lbs. mineral lubricating grease, delivery Philadelphia, Pa. Sch. 293.

Heating Plant.—Board of Awards, A. M. Denhard, City Register, Baltimore, Md.—Receives bids Dec. 14 for installation of hot water heating plant in Health Dept. clinic, 28 S. Broadway, C. H. Osborne, Ch. Bureau of Bldgs.

Inner Tubes.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 19 for 10,402 inner tubes.

Lumber.—Depot Quartermaster, Marine Corps, Philadelphia, Pa.—Receives bids Dec. 12 for 160,000 ft. b.m. Douglas fir.

Lumber.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 12 to furnish 160,000 BM Ft. lumber; delivery Philadelphia, Pa. Sch. 294.

Lumber.—U. S. Engr., Galveston, Tex.—Receives bids Dec. 12 for 25,000 ft. b. m. creosoted lumber.

Metal Cards.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 14 for 9200 air mail time cards for street letter boxes, made of metal.

Meters.—Quartermaster, Marine Corps, Washington, D. C.—Receives bids Dec. 15 for 5 cold water meters.

Miscellaneous Supplies.—Bureau of Supplies and Accounts, Navy Dept., Washing-

ton, D. C.—Receives bids Dec. 13 for sets levels and plumbs, wrenches, seaming, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Dec. 19 for following; Sch. 1846:

Structural steel masonry, plates, columns, beams, trusses and braces, ceiling framing and furring channels.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Dec. 16 for following; Sch. 2450:

Corrugated asbestos roofing and fasteners, sky lights, structural steel, furring channels, steel sash and doors, asbestos shingles, edge roll and cave starters.

Mops (Cotton).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 14 to furnish 10,000 cotton mops, delivery Philadelphia, Pa. Sch. 284.

Motor (Repulsion Induction).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 13 to furnish one repulsion induction motor, delivery Washington, D. C. Sch. 290.

Motors.—Quartermaster, Marine Corps, Washington, D. C.—Receives bids Dec. 13 for 1 repulsion induction motor, 3 h.p.

Motor.—U. S. Engineer Office, 428 Customhouse, St. Louis, Mo.—Receives bids Dec. 14 to furnish deliver 940 h.p., D. C. motor.

Paint.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 16 for 410 cans automobile paint.

Pipe.—U. S. Engr., Savannah, Ga.—Receives bids Dec. 10 for 70 pieces of 12-in. shore pipe.

Pipe Line.—City of Abilene, Tex., K. R. Holmes, Sec.—Receives bids Dec. 10 for furnishing labor, tools, appliances and materials necessary to construction of 4 mile pipe line from city to Cedar Creek Dam; also receive bids on cast iron, reinforced concrete and wood stave pipe; W. A. Riney, City Engr.

Pipe (Cast Iron).—See Pipe Line.

Pipe (Reinforced Concrete).—See Pipe Line.

Pipe (Wood Stave).—See Pipe Line.

Pipe (Reinforced Concrete).—See Sewers.

Pipe (Vitrified).—See Sewers.

Pumping Plant.—Board of Comms., Sub-District No. 1 of Drainage District No. 8, Mississippi County, Osceola, Ark.—Receives bids Dec. 13 for construction of completely equipped drainage pumping plant, including electric driven machinery and appurtenances; work includes construction of galvanized iron superstructure approximately 16x20 ft., with concrete floor and foundations, sluiceway and furnishing and installing duplicate pumping units having combined capacity of 20,000 gal. per minute against low heads; Morgan Engineering Co., Engr., 622 Goodwyn Inst. Building, Memphis, Tenn.

Pumping Plant.—City of Bradenton, Fla., R. K. Van Camp, Com. Public Works, E. V. Camp and Associates, Inc., Conslt. Engrs., Atlanta, Ga., Bartow, Fla.—Receives bids Dec. 30 for furnishing materials, equipment and labor and constructing certain work approximately as follows:

- (1) Crane—5 ton hand operated traveling
- (2) Engine—100 kw. multi-cylinder vertical gasoline, or Diesel driven A.C. generating unit, direct connected
- (3) Pumps—1750 g.p.m. each direct connected to multi-cylinder gasoline engine and 750 g.p.m. centrifugal pumps, each direct connected to electric motors
- (4) Switch and Gauge Board
- (5) Pumping Station—building of concrete and brick, erecting machinery and making hydraulic and electrical connections.
- (6) Reservoir.—Reinforced concrete, 60 ft. diam. and 24 ft. deep, complete with concrete roof.

Pumps and Check Valves.—Sewerage and Water Board, New Orleans, La., A. G. Moffat, Sec.—Receives bids Jan. 23 for pumps and check valves for river pumping station; information, etc., from Room 303, 526 Carondelet St.

Roads.—Houston, Tex., receives bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Many, La. See Construction News—Roads, Streets, Paving.

Road.—Winnfield, La. See Construction News—Roads, Streets, Paving.

Road.—Orlando, Fla. See Construction News—Roads, Streets, Paving.

Road.—Clarksburg, W. Va. See Construction News—Roads, Streets, Paving.

Road.—Hazard, Ky. See Construction News—Roads, Streets, Paving.

Road.—Jena, La. See Construction News—Roads, Streets, Paving.

Roads.—State of Arkansas receives bids

for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Georgia receives bids for 11 roads. See Construction News—Roads, Streets, Paving.

Road Equipment and Machinery.—State Highway Board of Georgia, John N. Holder, Chmn., East Point, Ga.—Receives bids Dec. 20 for following: prices f. o. b. East Point: (1) **Tractors**—seven 10 ton and seventeen 5 ton, crawler type (2) **Graders**—thirteen 1 man with 12-ft. mould boards, scarifiers and crawler type tread, etc. (3) **Truck Chassis**—twenty-seven 1 ton, without cabs or bodies (4) **Road Graders**—twenty-three 8-ft., eight 10-ft., one 12-ft., with engine hitch (5) **Road Drags**—sixty 8-ft. 3 blade and eighteen 8-ft. 2-blade, etc.

Roofing.—Marine Corps, Quartermaster's Department, Washington, D. C.—Receives bids Dec. 14 to furnish 500 rolls roofing; delivery Quantico, Va. Sch. 205.

Roofing.—Quartermaster, Fort Eustis, Va.—Receives bids Dec. 12 for 1000 rolls prepared asphalt roofing.

Sewers.—Board of Awards, Baltimore, Md.—Receives bids Dec. 14 for sanitary sewers and storm drains in District 34, Storm Water Contract No. 95; work includes brick and concrete arch section drain; brick and concrete drain; reinforced concrete pipe drain; vitrified pipe drain; vitrified pipe sewer; Milton J. Ruark, Sewerage Engr., Municipal Office Bldg.

Sewers.—Washington Suburban Sanitary Comsn., Evans Bldg., New York Ave., Washington, D. C.—Receives bids Dec. 14 for construction sub structure and buildings for 4 sewage pumping stations at Gaithersburg and Washington Grove, Md.; Robt. B. Morse, Ch. Engr. of District, Hyattsville, Md.

Sewers.—City of Huntington, W. Va.—Board of Comms.—Receives bids Dec. 14 for construction of storm relief sewers.

Stand Pipe.—Board of Directors of Annapolis Water Co., Annapolis, Md., Frank H. Thompson, Sec. and Treas.—Receives bids Dec. 19 for furnishing and erecting steel stand pipe of approximately 1,375,000 gals. capacity.

Steel.—Norfolk & Western Ry. Co., Clyde Coker, Purchasing Agent, N. & W. Ry. Bldg., Roanoke, Va.—Receives bids Dec. 14 for 2000 sheet locomotive jacket steel, Contr. Serial AA-496.

Street.—Baxley, Ga. See Construction News—Roads, Streets, Paving.

Street.—Hollywood, Fla. See Construction News—Roads, Streets, Paving.

Street.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Textiles.—Depot Quartermaster, Marine Corps, Philadelphia, Pa.—Receives bids Dec. 28 for 25,000 yds. of unbleached cotton drilling, 10,000 yds. bleached and shrunk drill, 50,000 yds. unbleached cotton sheeting and 20,000 yds. unbleached muslin.

Thread, etc.—U. S. Veterans' Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 9 for 802 spools thread sewing silk, various colors and 750 spools buttonhole twist thread.

Tires.—Pur. Agt., P. O. Dept., Washington, D. C.—Receives bids Dec. 19 for 12,550 pneumatic cord tires.

Tires and Tubes.—Depot Quartermaster, Marine Corps, Philadelphia, Pa.—Receives bids Dec. 17 for 200 tires and 300 tubes.

Tires and Tubes.—General Supply Committee, Washington, D. C.—Receives bids Dec. 12 for tires and tubes during 3d quarter of fiscal year 1928.

Tires and Tubes.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Dec. 17 to furnish tires and tubes; delivery Philadelphia, Pa. Sch. 287.

Tractors.—Walton County Comms., M. T. Fountain, Clerk, DeFuniak Springs, Fla.—Receives bids Dec. 19 for purchase of two 5-ton crawler type tractors, f. o. b. DeFuniak Springs; bidders to submit best offer for two 2-ton Cletrac tractors now in use in Dist. Nos. 1 and 2 and one 13-30 International tractor in use in Dist. No. 3.

Truck.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 19 for 1 ton capacity truck.

Twine.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 10 for 100 lbs. No. 18, 50 lbs. No. 36, 400 lbs. No. 6 and 400 lbs. No. 16 cotton twine; 300 lbs. 4-ply hemp.

Valve Cutting and Grinding Machines.—U. S. Veterans Bureau, Supply Div., Wash-

ington, D. C.—Receives bids Dec. 15 for 2 valve cutting and grinding machines for automobile engine work.

Water Mains.—Office of Constructing Quartermaster, Fort Bragg, N. C.—Receives bids Dec. 27 for construction and completion of cast iron water supply system; information on application.

Water Works.—City of Boerne, Tex., R. L. Hickman, Mayor—Receives bids Dec. 23 for drilling fresh water well for installation of water works system; The Terrell Bartlett Engineers, Inc., 609 Calcasieu Bldg., San Antonio.

Wharf Sheds.—Lake Charles Harbor and Terminal Dist. Comms., Guy Beatty, Pres. Assn. of Commerce Bldg., Lake Charles, La.—Receives bids Dec. 20 for construction and erection 3 steel wharf sheds as follows: one steel wharf shed complete, 139 ft. 2 in. by 736 ft., and one 70x300-ft., being a widening of present shed No. 1; one 70x300 ft. and 139 ft. 2 in. by 72 ft., being widening and lengthening of present shed No. 2; Elmer E. Shutts, Engr.

Wire Screening Protection, etc.—Board of Awards, A. M. Denhard, City Register, Baltimore, Md.—Receives bids Dec. 14 to furnish wire screening protection around area wall at Canton Platoon School, First St., Fair Ave. and Hudson St.; H. G. Perring, Supvg. Engr., Public Improvement Comsn.

Wooden Bases.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Dec. 10 for 1200 wooden table bases, both oval and round.

Trade Literature

Industrial Posters to Spur Up Effort.

A copyrighted booklet of 56 pages by the Simpson Advertising Company of St. Louis has been prepared for the Manufacturers and Merchants Association of that city, its title being "M. & M. Industrial Posters." The title page says it contains "52 weekly messages, strong sentence sermons, to inspire and promote constructive thought and action by encouraging ambition, energy, loyalty, self-interest, thrift, team work, etc." of your employees in office and factory. Within it says: "Co-operative stock selling has done much to insure the loyalty of employees and cut down labor turnover, but this plan, as good as it is, does not overcome mistakes, laziness, indifference, loafing and other such enemies in the industrial plants." One of these posters, for instance, represents an automobile, typical of a business enterprise, on the road to Success, which is in the distance. It has the title "Let's Go: All Together: We'll Take Every Hill on High." This is most expressive of team work. Another poster says: "A Good Loan: Machines Can't think, but you can. Lend them your brains and they will work for you." Still another pictures the gateway to Success and is accompanied by the advice, "Stars and Bars: Bad habits are bars that stop you; good habits are stars that guide you." The posters, which are 21 by 28 inches in size, are intended for display beside time clocks, bulletin boards and in other places where they are sure to be seen by everyone in a business establishment.

Pangborn Sand Blast Folder.

The Pangborn Corporation, Hagerstown, Md., have issued a neat folder concerning their sand-blast equipment, the publication having the caption "A Fair Question: How Will It Stand Up?" Attention is directed to the "fundamentally correct design" of this equipment, which, it is further stated, is "constantly refined as experience demands." Besides, it is remarked that the Pangborn product is distinguished by being made of high-grade material, with good workmanship, which gives longer life to the correct design. Economy of operation is a characteristic.

Ornamental Work of Iron, Bronze and Wire.

A book composed of large and beautifully illustrated pages has been published by the National Association of Ornamental Iron and Bronze Manufacturers, 622-626 Broadway, Cincinnati, Ohio, with the title "Ornamental Iron, Bronze and Wire Work." There is an introduction by Harvey Wiley Corbett of Helmle, Corbett & Harrison, architects, New York city. Most of the 68 pages composing the book carry pictures of handsome work done in iron and bronze, the publication being designed for the use of architects and others concerned with the erection of buildings. Beautiful doors, stairways, balconies, windows, grilles, tables, boxes for different uses—all are shown with accurate detail and most impressively. One of the handsome entrances for an office building was made by the Southern Ornamental Iron Works of Dallas, Texas, for the Sanger Theater Building in Shreveport, La. Another work is a balcony by the Logan Company of Louisville, Ky., for the El Vernona Hotel at Sarasota, Fla. A third piece of work is by David Lupton's Sons Company of Philadelphia for a residence in Atlanta, Ga. In St. Louis, Mo., for a store front is a wrought-iron grille and marquee by the Rogers-Schmitt Wire and Iron Company of that city. The Usona Manufacturing Company, also of St. Louis, has built a number of fine cast-bronze grilles for radiators in the Masonic Temple there, one of which is likewise illustrated. There is a picture of a wrought-iron wood box designed and executed by Moynahan & Duchene, Inc., of Detroit, Mich., for a residence in Sewanee, Tenn. Another bit of most attractive work is a lantern by the Ornamental Wire and Iron Company of St. Louis. There is also a large and fine bronze clock fabricated by the Newman Manufacturing Company of Cincinnati, Ohio, for an insurance company at Tulsa, Okla. Not the least important is a picture of bronze elevator fronts made by the Tyler Company of Cleveland, Ohio, for the Niels Esperson Building of Houston, Texas. Railings, balconies and grilles and marquee done for a residence by the J. B. Klein Iron and Foundry Company of Oklahoma City, Okla., are similarly pictured. Many other illustrations of work done in other cities by various firms are also shown.

Vertical Water Wheel Driven Generators.

A book of 32 pages, published by the General Electric Company, Schenectady, N. Y., gives full particulars about "Vertical Water Wheel Driven Generators," from 62.5 kv-a to 3000 kv-a. The bulletin is numbered GEA-820 and it supersedes Bulletin 40601-A. In addition to water wheel driven generators the company manufactures all classes of electric apparatus for completely equipping hydro-electric power stations. It is now producing units ranging in capacities from 30 kv-a to 65,000 kv-a. The book is comprehensively illustrated with detail pictures of different parts of these units showing just how they are manufactured. There is also a great amount of data, valuable to those who have to install such power plants.

Popularity of Concrete Pipe Sewers.

"Concrete Pipe Sewers," published by the American Concrete Pipe Association of Chicago, gives comprehensively facts concerning the manufacture and laying of concrete pipe sewers in different parts of the country, accompanied by sundry illustrations. There are pictures of work of this nature which has been done in Richmond, Fort Worth, Houston, New Orleans, Miami, Jacksonville, Savannah, Knoxville, San Antonio and many other cities.

Superior-Otto Airless Injection Diesel Engine.

Bulletin No. 114 of the Superior Gas Engine Company, Springfield, Ohio, gives full particulars, with a number of high-class illustrations, concerning the Superior-Otto Airless Injection Diesel Engine. Engines of this type are built in sizes from 60 to 360 horsepower and with one, two, three, four or six cylinders, rated at 60 horsepower per cylinder. It is stated that they are most economical and dependable for electric light and power, ice-making and refrigeration plants, besides pipeline stations, water works, flour, cereal and textile mills and other industrial plants; also for use in mines and quarries, for irrigation, drainage, hydraulic dredging, etc. They are of the low-speed stationary type built for heavy duty and continuous service over long periods of time, which, it is remarked, insures lowest fuel and lubrication costs, with minimum attendance and repairs.

Value of Steel in Home Building.

The American Institute of Steel Construction, Inc., 285 Madison avenue, New York city, has issued a bulletin which emphasizes the safety, durability and economy of steel for the building of homes. It is observed that the use of steel in residences is developing a new market for the product of the steel industry. Among other things the bulletin says that in three hours and twenty minutes a foreman, four structural steel workers and several helpers erected the steel frame for a six-room residence—which is fire, earthquake and hurricane proof—at Forest Hills, Long Island, N. Y. Standard shapes were used. Charles M. Schwab is quoted as saying that such use of steel promises to provide us with safer and more durable homes than we have ever before been able to build.

Paige-Jones Water Softeners.

A new bulletin entitled "Softened Water, the Universal Need," details the various benefits derived from the softening of water supplies and also describes the different types of water-softening equipment as manufactured by the Paige & Jones Chemical Company of Hammond, Ind., who, it is stated, are manufacturers of every proven method for softening water and also of efficient pressure sand filters. Of particular interest in this bulletin is the rapid-rate upflow Zeolite softener, which, it is remarked, was originated, developed and perfected by Paige-Jones engineers. Industries which are greatly benefited by using softened water are power plants, laundries, hotels, hospitals, oil refineries and oil-engine operations. The bulletin is fully illustrated.

Everyday Uses of Marble.

The National Association of Marble Dealers, 648 Rockefeller Building, Cleveland, Ohio, have published a small but exceedingly interesting and attractive book of 75 pages, with sundry illustrations, concerning the "Everyday Uses of Marble." The pictures show impressively numerous examples of the use of marble for exterior and interior work in building construction; also its use for ornamentation in different ways. Architects and builders will find much in its pages to claim and hold their attention.

A Good, Practical Calendar.

The Baltimore Trust Company, anticipating the coming new year by a month, has issued a calendar for 1928, but having the dates for December, 1927, as a starter. It is a handy, business-like sort of calendar, with plain, large figures, such as would be wished by everyday folks.

Lorain 75A Catalogue.

The Lorain 75-A is the chief subject of interest in a large and notably fine catalogue issued by the Thew Shovel Company of Lorain, Ohio. Comprehensive data are given about this powerful and efficient machine, which is described as "a single power unit without any complications." It is operated with either gasoline or electric motor. There is a profusion of pictures in the book, representing the machine engaged upon a great variety of operations. Salient points mentioned are great range, small size, tremendous power, with moderate weight; enormous strength and high speed and smooth, positive control. It is equally efficient as either a shovel, a crane, a dragline or a back-digger.

A New De Laval Bulletin.

Centrifugal blowers and compressors as used in blast furnaces, steel plants and by-product coke oven plants are described, together with pumps, turbines and speed reducers, in Bulletin E-1107, distributed by the De Laval Steam Turbine Company, Trenton, N. J. Centrifugal blowers and compressors are built with various numbers of stages, ranging from single stage blowers, for blowing air through the fuel beds of water gas generators, to multistage compressors capable of supplying air at 100 pounds pressure per square inch. These centrifugal blowers and compressors are driven by De Laval steam turbines or by electric motors. Speed-increasing gears are sometimes used in order to utilize standard-speed motors.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Transfers From Atlanta to Cleveland.

Walter C. White, president of the White Company, Cleveland, Ohio, manufacturers of motor trucks, has announced that Saunders Jones, vice-president of the Southern region of that company, with headquarters in Atlanta, Ga., is being transferred to the home office, where, as vice-president of the White Company, he will act as assistant to the president and have all the authority of such a position. C. B. Cowan, who has been district manager at Birmingham, Ala., will take over Mr. Jones' work in the Southern region as acting manager pending the appointment of a vice-president. Mr. Jones started with the White Company as a salesman at the Dallas branch. Later he was branch manager at Nashville, next vice-president of the Western region, with headquarters at St. Louis, and then vice-president of the Southern region at Atlanta.

Johns-Manville Superex Insulation.

The Johns-Manville Corporation, 292 Madison avenue, New York city, have recently added a new installation to their line of power-plant products, which is covered in detail in a handy size booklet. This is called Johns-Manville Superex Insulation for furnaces and other high-temperature equipment. It is described as the most adaptable material for insulating surfaces where the material applied must resist temperatures between 600 and 1500 degrees Fahrenheit. It is a combination of refractory material of good insulating value and asbestos fiber, bonded together. It is stated that it will withstand temperatures up to 1500 degrees with almost negligible shrinkage. A list of prominent manufacturers who use it is given.

Big Turbine Generator to Go South.

The General Electric Company, Schenectady, N. Y., says that the first giant single-cylinder turbine generator for service in the South is now being manufactured at its shops. This power unit is rated at 60,000 kilowatts, and it will be the initial installation at a new station that is being built by the Dixie Construction Company near the site of the present Gorgas station of the Alabama Power Company near Birmingham, Ala. The ultimate capacity of the station will be 240,000 kilowatts and it will be used to meet the fast-growing load demands of the South. The turbine of the new unit will operate at a steam pressure of 400 pounds gauge at a temperature of 725 degrees Fahrenheit.

Blaw-Knox Distributors Appointed.

The Blaw-Knox Company of Pittsburgh, Pa., have announced the appointment of several distributors for their "Security" open flooring, electro-forged grating and steps. They are the Worden-Allen Company of Milwaukee, Wis.; the Wilson-Weesner-Wilkinson Company of Knoxville, Tenn., and James A. Hall, 1525 Esperson Building, Houston, Texas.

Advertising Manager Appointed.

Edgar McNall, who for eight years has been connected with the advertising departments of newspapers at Cedar Rapids, Iowa, has been appointed advertising manager of the Speeder Machinery Corporation of that city, manufacturers of the Speeder shovels, pull shovels, skimmers, cranes, draglines and backfillers. He will have charge of the greatly enlarged advertising program which the corporation plans for 1928 and will render advertising assistance to distributors.

Trade Mark and Name Registered.

The Northern Blower Company of Cleveland, Ohio, has announced that its "Norblo" trade mark and the word "Norblo," as applied to its dust-collecting systems, sand-blasting equipment and similar air-operated apparatus, have now been registered officially at the United States Patent Office. The trade mark has been in use for many years, but in view of the increasing amount of foreign and export orders received during the past two years, it was deemed advisable to secure proper protection in this particular.

State Industry Conference, 1928.

The National Slate Association, Drexel Building, Philadelphia, Pa., has sent out announcements that the 1928 Slate Industry Conference will be held January 17 and 18 at the Hotel Commodore, New York city. The attendance will be composed of members, associate members and guests of the National Slate Association. The preliminary program of discussions on better production methods, marketing, merchandising, co-operative advertising, etc., carries much of interest to producers, mill and quarry executives, distributors, roofing and setting contractors, etc. Arrangements have been made for the display of new and interesting developments and there will also be an inspection trip to show outstanding uses of slate in the city and its environs.

Struthers-Wells Have Big Program.

The Struthers-Wells Company of Warren, Pa., manufacturers of riveted and welded steel-plate construction for various purposes, has recently appointed H. W. How, formerly chief engineer of the Buffalo Foundry and Machine Company, as consulting engineer in a permanent capacity. The Struthers-Wells Company have planned an elaborate manufacturing program for the year 1928. A complete line of heat exchangers has been developed in five different types and of size range to cover all requirements; they are standardized and all parts are interchangeable. A new series of rotary air and direct-heat dryers in standard sizes and construction has also been developed. In the oil refinery fields of work there will be included bubble towers, pipe stills, filters, mist separators and fuller's earth burners. Present plans also embrace the development and standardization of a high velocity evaporator, a high-temperature heat exchanger system for process work requiring temperatures higher than that obtainable with steam, and a new system of evaporation and fusion for inorganic products requiring elevated temperatures for finishing. It is also intended to produce an improved type of continuous screw press for extracting oil and water from refuse materials, and eventually a complete line of evaporators, dryers, condensers and auxiliary equipment will be developed. It is interesting to note that Mr. How, the consulting engineer, was before the war in charge of the machine and plate shop of the Thomas C. Basshor Company of Baltimore. Later he was engaged by the Southern Menhaden Company of Jacksonville, Fla., to design and construct a complete plant for the manufacture of fish fertilizer and oil. During the war he was in the navy as chief engineer officer and also as manager of the Naval Engineering Experiment Station at Annapolis. He has been at Buffalo for five years.

Robinson & Steinman Announce Removal.

Cards have been sent out announcing that Robinson & Steinman, consulting engineers, have removed their offices to the Roebling Building, 117 Liberty street, New York city. Telephone is Cortlandt 1235. The members of the firm are H. D. Robinson and D. B. Steinman.

Paving Brick Manufacturers to Meet.

The ninth annual meeting of the Eastern Paving Brick Manufacturers' Association will be held December 13 at the Hotel Roosevelt, Pittsburgh, Pa. Wm. C. Perkins, Lincoln Building, Philadelphia, is secretary.

Many Southern Bonds Announced.

The First National Company, which is the name of the investment division of the First National Bank of St. Louis, has in its list of Monthly Investment Offerings, dated November, 1927, a number of securities issued in the South, these including both municipal and industrial bonds, particulars being given concerning the respective issues which are set forth in the publication.

William B. Rufe.

William Byron Rufe, secretary of Jenkins Bros., New York, and also secretary of Jenkins Bros., Ltd., the Canadian branch of that concern, died in Brooklyn, N. Y., on November 27, 1927. Mr. Rufe was born in Lehigh county, Pa., 56 years ago. His uncle was one of the first of the modern stenographers and young Rufe learned stenography from him and was employed by Jenkins Bros. as their first stenographer. He became secretary of the firm on its incorporation in 1907 and in January, 1928, would have completed 40 years of service.

E. B. Mallory With Climax Engineering.

E. B. Mallory has been elected vice-president and member of the board of directors of the Climax Engineering Company of Clinton, Iowa, according to announcement by G. W. Dulany, Jr., chairman of the board of the Dulany Trust Company of Chicago, of which the Climax Company is a subsidiary. The announcement further states that Mr. Mallory was also elected president and member of the board of the Climax Refrigeration Company, manufacturers of refrigeration units for domestic, soda fountain, delicatessen, florist and other uses. Mr. Mallory began his work with the Westinghouse companies in 1903 and was broadly trained in their various engineering, manufacturing and sales activities during his many years' connection with them.

Important Business Announcement.

Peter A. Sensenig, 10 West Scott avenue, Rahway, N. J., previously connected with the publicity department of the Westinghouse Electric and Manufacturing Company and also with the Ingersoll-Rand Company, and who more recently established the P. A. S. advertising and publicity service, has severed connections with several publications as advertising representative so as to devote more time to his real estate business near the center of the marine, industrial, commercial, seashore and farming section of Northern New Jersey. It is further stated that Mr. Sensenig will, however, continue his publicity and advertising business on an agency basis.

Oscar T. Smith & Son Co. Organized.

Announcements have been sent out of the organization of the Oscar T. Smith & Son Company, whose building is at 407-9-11 East Saratoga street, Baltimore, Md., where they have installed complete equipment for lithographing, steel plating, printing and bindery work. Efforts will be devoted exclusively to manufacturing the higher grades of bank and commercial stationery. Their interest in the American Bank Stationery Company was disposed of when the new company was formed.

Detroit Distributors for Walworth Valves.

The James E. Degan Company of Detroit, Mich., wholesalers of steam fitters and mill supplies, have announced that they have become distributors for the Walworth valves, manufactured by the Walworth Company of Boston, Mass. Complete lines of iron, brass and steel valves of the latter company are therefore now carried at the Degan warehouse, 622-624 First street, in Detroit, the stock including valves suitable for all service requirements on steam, water, gas, air or oil lines.

Main Office to Be Moved.

The main office of the Eppinger and Russell Company Creosoting Works will be moved soon from its present location at 165 Broadway to 11 Park Place, New York city. The plants of the company are situated at Long Island City, N. Y., and Jacksonville, Fla., respectively.

Contract for Paper Bag Mill at Glenburnie, Md.— New Company Has Authorized Capital Stock of \$2,000,000.

Construction of the new paper bag mill at Glenburnie, Md., about nine miles from Baltimore, is expected to be started at once by the Maryland Paper Mills, Inc., of which William W. Ormsbee is president. The mill will be 200 by 150 feet, one story 16 feet high, of steel, concrete and hollow tile, with metal roof, to house approximately \$78,000 worth of machinery, including 11 paper bag machines, with a capacity of producing 90 tons of bags having capacities from 2 to 25 pounds. General contract has been awarded to Roberts, Fuquay & Murphy, with offices at 611 Southern Building, Washington, D. C., in conjunction with George O. Selby, 5 Hopkins place, Baltimore. The mill is expected to be completed within four months.

Within a few months the company plans also to build a pulp mill, 150 by 200 feet, at a cost of \$38,000 and equip it with machinery to cost \$22,000. The two mills are expected to employ 800 men eventually. A large part of the raw material will probably be obtained from Southern Maryland, transportation being facilitated by the new Crain Highway which has recently been completed.

Farm Price Index.

The index of the general level of farm prices declined one point from October 15 to November 15, and is now 138 per cent of the 1909-14 pre-war level, according to the November price report of the Bureau of Agricultural Economics, United States Department of Agriculture.

The index of 138 compares with 130 in November a year ago, due chiefly to higher prices of cotton and cottonseed, fruits and vegetables. The bureau's index of purchasing power of farm products is placed at 92 for October, which is an advance of 12 points over November a year ago.

\$1,425,000 Virginia Bonds at \$47,723 Premium.

Bonds in the amount of \$1,425,000 for refund purposes have been sold by the State Sinking Fund Commissioners, Richmond, Va., at a premium of \$47,723, or on a basis of 103.349. J. M. Purcell, State Treasurer, advises that they were purchased by a syndicate composed of the American National Bank and Wheat-Galleher Company, both of Richmond; Chase Securities Corporation, Barr Brothers & Co., Inc., H. L. Allen & Co., Stone & Webster, Inc., and Blodget & Co., all of New York. The bonds will be issued in denominations of \$1000 and will bear an interest rate of 4 per cent.

6,000-Ton Sugar Mill for Florida.

To Break Ground This Week at Clewiston—Chicago Interests Developing 100,000 Acres for Cane—Insulating and Building Board Plant Projected.

[Telegram to Manufacturers Record.]

Chicago, Ill., December 5.

Governor John W. Martin of Florida on December 9 will turn the first shovel of earth at Clewiston, Fla., for the first unit of a 6000-ton sugar mill for the Southern Sugar Company, B. G. Dahlberg, Chicago, president. Many notables have accepted invitations. Congratulatory telegrams have been received from Cabinet officers, mayors and others.

The Dahlberg interests now control over 100,000 acres of rich Everglades lands south of Lake Okeechobee and are carrying on an extensive drainage program. The cane harvested this year gave almost incredible yield of from 40 to over 80 tons per acre, or more than twice the average yield of Cuba and Louisiana. A total of 9000 acres will be ready for first grind in mill next November. Agricultural authorities of Florida are looking to Dahlberg development of new "Sugar Bowl" for industrial rehabilitation of State.

As soon as the sugar factory is in operation a Celotex factory at Clewiston to utilize bagasse is projected. The industries will give employment to thousands.

There is a rapidly growing town already at Clewiston where three years ago there was nothing but swamp land.

WILLIAM L. JOHNSTON,

Vice-President, The Celotex Company.

Weather Stimulates the Ice Industry.

Summer and near summer temperatures recorded in October and November were responsible for a sharp increase in the earnings of leading ice companies over those shown for the same period a year ago, according to reports received by John Nickerson & Co., investment bankers, New York city. One manufacturer showed a gain in earnings for October of more than \$150,000 over the same month in 1926, says the report, which adds that "a recent survey of a typical American town showed 37 per cent of the families use no ice, 49 per cent of the homes use ice from only one to six months in the year, and the remaining 14 per cent use ice from seven to 12 months in the year. "This would seem to bear out the statements of leaders in the industry that American families now using ice constitute only 40 per cent of the potential ice market," say Nickerson & Co.

Another Southern Man Heads a National Body.

William A. Graham, Commissioner of Agriculture for North Carolina, was recently elected president of the National Association of Commissioners of Agriculture at the annual meeting in Chicago. Mr. Graham has been actively associated with agricultural problems in the South during the past year. After the 1926 cotton slump, due to overproduction, he opposed a "sign up" campaign as a remedy and insisted that the only permanent cure was to educate the farmers to diversify their crops and not depend on any one or two staples. He also led in the movement to prevent the United States Department of Agriculture from issuing cotton price forecasts.

The Board of Public Service, St. Louis, Mo., has received low bid from the Murch Brothers Construction Company of St. Louis, at \$249,778 for the construction of a coagulant house at the Missouri River plant of the St. Louis Water-Works.

Contracts for Florida Pimentos.

The firm of Shaver Brothers, Jacksonville, which canned 100,000 cases of grapefruit last season, has induced Levy county farmers to plant pimento peppers and has agreed to buy the entire crop. It means that Florida will enter the market with another food product in demand throughout the country.

Kentucky Ice Manufacturers Elect Officers.

Louisville, Ky.—At the thirteenth annual meeting here of the Kentucky Ice Manufacturers Association, the following officers were elected: Claude N. Boone, Louisville, president; Scott Glore, Jr., Danville, vice-president; Thomas A. Bohon, Louisville, secretary, and Charles A. Hugger, Jr., Owensboro, treasurer. Mr. Boone has named the following as members of the executive committee: Emil Peter, Louisville; J. D. Elsly, Lexington, and F. J. Sutterlin, Frankfort.

A Land of Sunshine and Flowers.

From Jefferson Davis parish, Louisiana, comes an illustrated folder with the inscription "In the Land of Sunshine and Flowers." It also says that this region is "fanned in summer by salt-laden Gulf breezes, and bathed in tropical winter sunshine with the Gulf stream's influence tempering the year round climate to the ideal." Towns and cities in the parish include Welsh, Lake Arthur, Elton, Roanoke, Fenton and Jennings. Jennings, whence this bit of Southern literature comes, is the parish or county-seat, with a population of 5000, and from it radiate 300 miles of hard-surfaced roads connecting every town and hamlet. Electric high lines carry light and power to every section. The country is fast diversifying in agriculture and citrus and other fruits are raised.

Georgia Highway Board to Purchase Equipment.

East Point, Ga.—Proposals will be received until December 20 by the State Highway Board of Georgia, John N. Holder, chairman, for furnishing road equipment, including the following: Seven 10-ton tractors of the crawler type; fifteen 5-ton tractors of the same type; thirteen one-man power graders with 12-foot mouldboards, scarifier and crawler type tread, or scarifier and lock-wedge or press-on type wheels with solid rubber tread; twenty-seven 1-ton truck chassis without cabs or bodies; twenty-three 8-foot road graders with engine hitch; eight 10-foot road graders with engine hitch; one 12-foot road grader with engine hitch; sixty 8-foot, 3-blade road drags; eighteen 8-foot, 2-blade road drags, and twenty high-speed mowers with engine hitch and 6-foot cutting bar.

Baltimore and Ohio Magazine, a Fine One.

The Baltimore and Ohio Magazine for November, 1927, is a handsome number of this popular railroad monthly; it contains a multitude of pictures taken at the "Fair of the Iron Horse," which was held at Halethorpe, near Baltimore, during the latter part of September and the early part of October. The result is a permanent record of that remarkable display of railroad progress and enterprise which far exceeded any other railroad display ever made. The front-cover page of the magazine represents the old Baltimore and Ohio pier No. 9 at Locust Point, Baltimore, as it appeared in the early eighties, with a locomotive attached to a train taking what was apparently its first whiff of the odor of salt water. Steamships are shown alongside of the wharf, one of them the Nova Scotia of the old Allan line of steamers which used to run between Baltimore and Liverpool via Halifax, as will be recalled by old timers.

TRADE

"LEADITE"

MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	\$155,631
LEADITE Joints	142,535
Difference	\$ 13,096
Saving in favor of LEADITE ..	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify
and use
LEADITE
It saves
at least **75%**

Be sure
it is
LEADITE
and accept
no imitations

*The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.*

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

FINANCIAL NEWS

Bond Issues Proposed

Fla., Bartow—School—Bartow Special Tax School Dist. No. 7, Polk County, votes Dec. 29 on \$340,000 bonds; A. B. Connor, Supt. Board of Public Instruction.

Fla., Fort Pierce—Navigation—Board of St. Lucie County Comms., Florida Inland Navigation Dist., F. G. McMullen, Member, plans calling election on bonds for dist.

Fla., Orange City—City Hall, etc.—City, S. D. Woods, Clk., defeated \$75,000 bond issue. 11-24

Fla., Pensacola—Road—Escambia County Comms. receive bids Dec. 13 for \$40,000 warrants. 11-17

Fla., Pinellas Park—Municipal Improvement—Town Comms. plan \$50,000 bond election, for water works, garbage incinerating plant, jail, fire alarm system, remodel town hall, street improvement, office equipment.

Fla., St. Petersburg—Water Works—City, R. E. Ludwig, Director of Public Utilities, plans voting in Dec. on \$750,000 bonds to purchase land and construct filtration and treatment plants.

Fla., Stuart—Road, Bridge—Martin County votes Dec. 31 on \$1,757,000, 6% bonds. Address County Comms.

Fla., Venice—Street—City, H. E. Haynie, Clk., receives bids, probably latter part of Dec. for \$300,000 6% \$1000 denom. bonds. 12-1

Ga., Decatur—School—Druid Hills School Dist. votes Jan. 9 on \$250,000 bonds; W. A. Rainey, DeKalb County School Supt. 11-24

Ky., Lawrenceburg—City voted \$15,000 bonds to install dam, and retire outstanding warrants. Address City Clk. 11-24

Ky., Richmond—Sewage Disposal Plant—City voted \$60,000 bonds. 9-15

La., Monroe—Road—Ouachita Parish votes Dec. 20 on bonds. Address Parish Police Jury.

La., Opelousas—Light, Water Works—City, J. M. Prescott, Clk., voted \$50,000 bonds; A. J. Perrault, Mayor. 11-3

Miss., Kosciusko—Road—Attala County, Beat 3, voted \$75,000 bonds. Address Board of Supvrs.

Miss., Lexington—School—City votes Dec. 17 on \$60,000 bonds. Address City Clk. 11-10

Miss., Ripley—Water Works—City, S. Butler, Mayor, voted \$48,000 bonds. 11-10

Mo., Clayton—Hospital—St. Louis County voted \$1,000,000 bonds. Address County Comms. 10-6

Mo., Clayton—St. Louis County defeated \$11,750,000 bond issue: \$10,000,000, road; \$1,000,000, parks and playgrounds; \$750,000, jail and additional courthouse space. 11-6

N. C., Charlotte—Courthouse, Jail—Mecklenburg County Comms., F. M. Gresham, Clk., plan selling in March \$400,000 bond issue.

N. C., Durham—City, C. B. Alston, Clk., receives bids Dec. 10 for \$1,500,000, 4% or 4½%, \$1,000 denom. bonds; \$1,000,000, street improvement; \$400,000 sewer; \$100,000, street widening and extension.

N. C., Franklin—City, F. L. Bryson, Clk., votes Dec. 20 on \$80,000 bonds; \$68,000, water works; \$12,000, sewer. 11-17

N. C., Gastonia—Funding—Gaston County Comms., L. E. Rankin, Clk., plan \$80,000 bond issue.

N. C., High Point—City Council authorized sale of \$1,500,000 bonds to take care of outstanding notes. Address City Mgr. Pilcher.

N. C., Walnut Grove—Sewer, Water Works, Electric Lights—Town, J. R. Voss, Clk., receives bids Dec. 12 for \$15,000 6% \$1000 denom. bonds. 11-24

N. C., Waynesville—Funding—Haywood County Comms., C. F. Kirkpatrick, Clk., receive bids Dec. 21 for \$58,000, 5%, \$1,000 denom. bonds.

N. C., Winston-Salem—Tuberculosis Hospital—Forsyth County Comms., plan calling election on \$200,000 bonds. 3-17

Okla., Frederick—Road—Tillman County defeated \$800,000 bond issue. Address County Comms. 11-17

Okla., McAlester—School—City votes Dec. 15 on \$90,000 bonds. Address City Clk.

Okla., Oklahoma City—Improvement—City, E. M. Fry, Mgr., voted \$10,329,000 bonds: \$900,000, conduit and filtration plant improvement; \$100,000, water mains extension; \$250,000, sanitary sewer lines; \$70,000, fire department equipment and buildings; \$50,-

000, traffic control equipment; \$2,424,000, storm sewers; \$550,000, 2 bridges and flood control measure; \$285,000, to beautify blocks 3, 6 and 9, Dale Addition, for park purposes; \$1,700,000, school; \$4,000,000, to purchase Rock Island right-of-way through business section, remove Rock Island R. R. tracks, construct joint station for Rock Island and Frisco Railroads; B. M. Hart, City Engr. 11-3, 11-24

Okla., Tecumseh—Water Works, Sewer—City, M. H. Henderson, Mayor, defeated \$50,000 bonds. Address City Clk. 11-24

S. C., Camden—Paving—City, W. H. Haile, Clk., voted \$35,000 bonds.

Tenn., Missionary Ridge—City, H. L. Fisher, Clk., votes Dec. 29 on \$50,000, 5½% bonds, for street improvement and fire equipment; J. F. Holbert, Mayor.

Tenn., Murfreesboro—Highway—Rutherford County Court, Charles N. Haynes, Chmn., receives bids soon for \$236,000 bonds.

Tex., Anahuac—Road—Chambers County, L. R. Miller, County Judge, receives bids Dec. 12 for \$100,000 5% \$1000 denom. Road Dist. No. 2 bonds. 11-10

Tex., Bangs—Water Works—City votes Dec. 18 on \$45,000 bonds. Address City Clk.

Tex., Benjamin—Road—Knox County, Road Dist. No. 5, votes Dec. 10 on \$280,000, 5½% bonds. Address County Comms.

Tex., Coleman—City, E. P. Scarborough, Mayor, votes Dec. 14 on \$175,000 bonds: \$37,000, refund; \$45,000, city hall and fire station; \$75,000, paving.

Tex., Eagle Pass—Irrigation—Maverick County Water Control Dist. No. 1, Ben V. King, County Judge, votes Dec. 19 on \$4,800,000 bonds. 12-1

Tex., Edinburg—Road—Hidalgo County, T. J. Kelly, Judge, plans receiving bids about Dec. 15 for \$850,000 Weslaco Road Dist. bonds. 11-24

Tex., Edinburg—Road—Hidalgo County, Road Dist. No. 6, plans \$1,000,000 5½% bond issue. Address County Comms.

Tex., Fort Worth—Tarrant County Water Control and Improvement Dist. No. 1, A. L. Baker, Pres., plans selling \$2,500,000 5% \$1000 denom. bonds of authorized \$6,500,000 bonds after Feb. 15, 1928; Ireland Hampton, Atty.; Hawley & Freese, Engrs., Cotton Exchange Bldg. 11-10

Tex., Fort Worth—Improvement—City, O. E. Carr, Mgr., votes Jan. 10 on \$5,300,000 bonds: \$1,500,000, municipal auditorium and lot; \$1,500,000, build and improve streets and sewers; \$1,100,000, improve sewage disposal plant and sanitary system; \$200,000, water works; \$350,000, bridge; \$350,000, purchase park lands; \$300,000, for revolving fund from which street improvements, etc., may be taken. 11-3

Tex., Henderson—Courthouse—Rusk County, J. T. Watson, County Judge, votes Dec. 12 on \$160,000 bonds.

Tex., Lasara—School—Lasara Independent School Dist., reported, voted \$25,000 bonds. Address Board of Trustees.

Tex., McCamey—Water Works Refund—City, R. E. Brown, Alderman, plans voting in Dec. on \$100,000 bonds. 11-24

Tex., Miami—Sewer—City votes Dec. 20 on \$40,000 bonds; Devlin Engineering Co., Consult. Engrs., 127 Central Bldg., Amarillo.

Tex., Panhandle—Road—Carson County, Asbery A. Callaghan, rejected bids for \$700,000 4½% bonds. 11-24

Tex., San Saba—City votes Dec. 13 on \$150,000 bonds: \$90,000, water works; \$60,000, sewer. Address City Clk.

Tex., Temple—Paving—City, R. F. Stroop, Mayor, defeated \$40,000 bond issue. 11-3

Tex., Vernon—Courthouse—Wilbarger County votes Dec. 29 on \$375,000 bonds. J. V. Townsend, Judge.

Tex., Yoakum—City votes Dec. 21 on \$250,000 bonds: \$70,000, sewer extension; \$150,000, paving; \$30,000, repair hospital, city hall, etc.; Terrell Bartlett Engineers, Calcasieu Bldg., for sewers only. 12-1

W. Va., Huntington—Bridge—City Comm., W. E. Neal, Mayor, may call bond election.

Bond Issues Sold

Ala., Anniston—Improvement—City, W. T. Morton, Jr., City Treas., sold \$35,000, 5½%, \$500 denom. bonds to Ward, Sterne & Co., Birmingham at \$35,550 and interest. 11-17

Ala., Birmingham—City Comptroller Armstrong purchased \$28,000 4.20% Jefferson County bonds for city sinking fund.

Ark., Helena—Road—City sold \$18,000 5½% bonds to M. W. Elkins & Co., Little Rock, at 101.75.

Fla., Bradenton—Improvement—City sold \$80,000 6% bonds to G. H. Walker & Co., St. Louis, Mo.

Fla., Daytona Beach—Highway—Ocean Shore Improvement Dist., Volusia and Flagler Counties, W. H. Courtney, Sec., Daytona Beach, sold \$265,000, 6% bonds to W. L. Slayton Co., Toledo, Ohio. 9-15

Fla., Eustis—City, George J. Dykes, Clk., sold \$15,000 6%, \$1000 denom. coupon bonds to Brown-Crummer Co., Orlando, and Wichita, Kan., at premium of \$80. 11-17

Fla., Manatee—Funding—City, Chas. J. Majory, Clk., sold \$50,000 6% bonds to Davies-Bertram Co., Cincinnati, at 97. 11-10

Fla., New Smyrna—Funding—City sold \$35,000 bonds to Bert Fish, DeLand, at par.

Fla., Orlando—Municipal Improvement—City, J. A. Stinson, Clk., sold \$155,000 5% \$1000 denom. bonds to W. L. Slayton & Co., Toledo, Ohio, at \$156,060. 11-17

Fla., Starke—Street—City sold \$36,000 6% bonds to Plainville Trust Co., Plainville, at par.

Ky., Shelbyville—Debt—Shelby County Fiscal Court, reported, sold \$200,000 to \$230,000 6% warrants to J. J. B. Hilliard & Son, 419 W. Jefferson St., Louisville, at 102 net.

Md., Cumberland—Memorial Hospital—City, M. R. Hast, Clk., sold \$150,000 4½%, \$100 denom. bonds to Harriss, Forbes & Co., New York, at 107.629. 11-24

Md., Oxford—Water Works—City, reported, sold \$40,000 bonds to Townsend Scott & Son, Baltimore, at premium of \$200.

Miss., Kosciusko—Road—Attala County Board of Supvrs. sold \$70,000, 5%, Beat 3 bonds to Merchants Bank & Trust Co., Lexington, at premium of \$1,500.

N. C., Burgaw—Road, Bridge—Pender Co. Comms., George F. Lucas, sold \$250,000 4½% bonds to Title Guarantee & Trust Co., Cincinnati, Ohio, and Otis & Co., Cleveland, at premium of \$5325, equal to 102.13. 11-10

N. C., Raleigh—Syndicate headed by First National Bank of New York will purchase \$3,500,000 North Carolina 4%, \$10,000,000 highway bonds, with understanding that remaining \$6,500,000, upon which syndicate has option, may be purchased at any time up to March 31, 1928.

N. C., Roanoke Rapids—Public Improvement—City, A. L. Clark, Clk. and Atty., sold \$15,000, 5%, \$500 denom. bonds to Weil, Roth & Irving Co., Cincinnati, at \$15.153. 11-17

N. C., Salisbury—Revenue Anticipation—Rowan County Comms., Max. L. Barker, Clk., sold \$110,000 4.10% notes to Detroit Trust Co., Detroit, at par. 12-1

Okla., Ada—Water Works—City, Lee Daggs, Clk., reported, sold \$425,000 bonds to Security National Bank, Oklahoma City: \$227,000, 4½%; \$198,000, 4½%. 11-3

S. C., Spartanburg—City sold \$400,000 4% short term notes to Carolina Natl. Bank, at \$400.378.

Tenn., Franklin—Funding—Town, Park Marshall, Mayor, sold \$17,000, 4½% bonds to J. C. Bradford & Co., Nashville, at \$17.228 and accrued interest.

Tenn., Lawrenceburg—School—Lawrence County School Board, reported, sold \$100,000 bonds to Caldwell & Co., Nashville.

Tex., Abilene—Road—Taylor County, Tom K. Eplen, County Judge, sold \$600,000, 4½%, \$1,000 denom. bonds to Mercantile Trust & Savings Bank, Dallas, Tex., at par, accrued interest and premium of \$2,826. 11-24

Tex., Odessa—Road—Ector County Comms. sold \$100,000 bonds to Garrett & Co., Dallas, at par, accrued interest and premium of \$5,489. 10-13

Va., Clifton Forge—Water Works—City, C. P. Nair, Chmn., Finance Committee, sold \$110,000, 4½% bonds to Prudden & Co., Toledo, Ohio, at par, premium and accrued interest. 11-24

Va., Richmond—State of Virginia, Board of Sinking Fund Comms., John M. Purcell, State Treas., sold \$1,425,000, 4%, \$1,000 denom. bonds to syndicate composed of American National Bank, Wheat, Galleher Co., both Richmond, Chase Securities Corporation, Barr Brothers & Co., Inc., H. L. Allen & Co., Stone & Webster, Inc., and Blodget & Co., all New York, at \$1,472.723, or basis of 103.349. 11-24

Va., Richmond—School Refunding—State (Continued on page 122)



In 1890, a roof of Barrett Pitch and Felt was laid on the Metropolitan Life Insurance Building (formerly Guaranty Loan Building) Minneapolis, Minn. After 37 years the roof is still giving satisfactory service.

A Barrett Specification Bonded Roof covers the 510 Groveland Avenue Building, Minneapolis, Minn. Architect: Larson & McLaren; Contractor: James Leck Company. Roofer: Minneapolis Roofing & Cornice Company. All of Minneapolis.

'91 COULDN'T CRITICIZE THE ROOFS OF '71!

"In the 90's, American buildings shot up higher—foreshadowing the modern skyscraper. This increase in size and height brought forward many new structural difficulties to be grappled with by architects and builders. In one respect, however, they did not have to experiment, invent or adapt. The standard roof of the 70's was still standard in the 90's—and is still standard today. This was and is the carefully built roof of coal-tar pitch and felt."

* * *

American building records covering the last three-quarters of a century offer the most impressive proof of the durability of pitch and felt built-up roofs. Many of these roofs can be seen still giving weather-tight protection after 40 or more years of service. Today, you will discover that a great number of our finest buildings are protected with The Barrett Specification Roof—a pitch and

felt roof acknowledged to be the highest type of permanent roof construction.

When a Barrett Specification Roof is laid, a Surety Bond is issued guaranteeing the building owner against repairs or maintenance expense for 20 years. And back of every one of these Surety Bonds stand these factors:

When the roof is laid all work must be done by an experienced roofer who is approved by The Barrett Company—a Barrett Inspector supervising each step of the job to see that The Barrett Specification is followed every inch of the way.

Directly after the roof is down the Barrett Inspector makes the famous "cut test." And not until this test is made does his O.K. release the Surety Bond.

Two years after the roof is finished the Barrett Inspector again checks up—makes a thorough re-examination of the roof.

Little wonder that Barrett Specification Roofs give dependable service many years after the 20-year guarantee has run out. For complete information about these trouble-free roofs, dictate a brief note to us.

Depend on the Barrett Approved Roofer

Throughout the United States and Canada a limited number of roofing contractors have been approved by Barrett to lay The Barrett Specification Bonded Roof. These men have earned a reputation for doing efficient work—a name for absolute dependability.

Good workmanship is a big part of *any* good roof. Be sure of good workmanship. Take your roof problems to the Barrett Approved Roofer.

THE BARRETT COMPANY
40 Rector Street, New York City

IN CANADA:

The Barrett Company, Limited
5551 St. Hubert Street, Montreal, Quebec

*Barrett
Specification
Roofs*

FINANCIAL NEWS

(Continued from page 120)

of Virginia, Board of Sinking Fund Com-mrs., Rosewell Page, Pres., John M. Purcell, State Treas., sold \$1,043,605 6% certificates, to Miller Manual School Board, an institution under State control.

W. Va., Fayetteville—School—State of West Virginia purchased \$250,000 5% Kanawha School Dist. bonds at par.

New Financial Corporations

D. C., Washington—Washington-Wimsett Co., capital \$300,000, organized; Austin C. Waller, Pres., Southern Bldg.; S. H. Talkes, V.-P., 631 E. St. N. W.; Joseph R. Arty, Sec., Southern Bldg.

Fla., Daytona Beach—Prudence Investment Co., capital \$50,000, incorporated; N. G. Alenick.

Fla., Orlando—O. P. Swope, Inc., capital \$500,000, incorporated; O. P. Swope, Orlando Bank & Trust Bldg.

Ga., Macon—Lynmore Investment Co., capital \$10,000, incorporated; B. H. Moore, Sr., E. H. Moore.

Miss., Aberdeen—Prairie Loan and Investment Co., authorized capital \$60,000, incorporated; George F. Leftwich, C. L. Tubb, both Aberdeen; Rufus Sweitzer, R. & P. Bldg., Huntington, W. Va.

Mo., Kansas City—Wamp Investment Co., capital \$50,000, incorporated; Leo Wetherill, 5414 Holmes St., Joseph F. Porter, 825 N. 58th St., Conrad Mann.

Mo., Kansas City—Brookwood Investment Co., authorized capital \$10,000, incorporated; A. P., 631 W. 57th St.; S. L. and E. A. Ten Brook.

Mo., St. Louis—Daily Loan and Investment Co., authorized capital \$24,000, incorporated; David Wilson, 912 Moreland Park; Robert Cummins.

Mo., St. Louis—Clark Finance Corp., authorized capital \$10,000, incorporated; C. F. and D. W. Schultz, John J. Wolfe, 208 N. Broadway, all Webster Groves.

N. C., High Point—Home Bond & Mortgage Co., authorized capital \$50,000, incorporated; Van W. Dillon, 617 W. Fourth St., R. C. Pratt, both Winston-Salem.

W. Va., Fairmont—Mountain State Loan Co., American Bldg., Adams St., authorized capital \$100,000, organized; James W. Boyer, E. C. Griswell, M. L. Hamilton.

Hamilton Trust and Savings Bank, T. R. Preston, Pres., Chattanooga, Tenn., plans increasing capital \$250,000 to \$500,000.

Tarrant County National Bank, D. E. Box, Pres.; Oris L. Williams, Asst. Cashier, Grapevine, Tex., purchased Farmers' National Bank, J. E. M. Yates, Pres.

Farmers & Merchants Bank, Adam Kluchin, Pres., Ivy N. Stafford, Cashier, Independence, La., plans increasing capital \$25,000 to \$40,000.

The Charlotte branch of the Federal Reserve Bank of Richmond was opened for business on Dec. 1, covering in its operations 34 counties in the western part of North Carolina and including the cities of Charlotte and Asheville and 21 counties in South Carolina, including the cities of Columbia, Greenville and Spartanburg. Hugh Leach is managing director in charge and W. T. Clement cashier of the institution, which is not merely a local affair but is for the two Carolinas. Other directors are Word H. Wood and John L. Morehead of Charlotte, N. C.; W. J. Roddey of Rock Hill, S. C.; Robert Gage of Chester, S. C.; John A. Law of Spartanburg, S. C., and Charles A. Cannon of Concord, N. C.

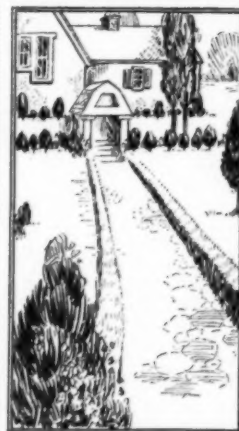
Bank of Roseboro, J. W. Yates, Pres., C.

D. DuBose, V.-P. and Cashier, and Coharie Bank, Troy I. Herring, Pres., C. B. Tyson, Cashier, both Roseboro, N. C., consolidated; authorized capital \$40,000.

Sivyer Casting Patterns Book.

"Steel Casting Patterns" is the name given to a fine and exceedingly valuable book issued by the Sivyer Steel Casting Company of Milwaukee, Wis., and intended for distribution among manufacturers who have castings to make. It is a treatise covering the preparation and the care of casting patterns, and it embodies a glossary which enables manufacturers and founders to understand each other to greater advantage. There are many pictures of value, including views of Sivyer jolt-molding machine units, electric annealing oven and cooling chamber, sand-blast room for cleaning large castings, cast aluminum plate squeezer equipment, split patterns mounted on squeezer board, pattern conference layout bench and mounted pattern for power jolt machine. Other illustrations give views in the Sivyer plant, also some facts about processes in their work. Data concerning Sivyer alloy and special carbon electric furnace steel and the representative physical properties of annealed and heat-treated castings will also meet with appreciation. It is pointed out that "the cost of correct pattern equipment is negligible compared to the machining cost and unnecessary expense of conditioning poor castings."

WE ARE GLAD TO ANNOUNCE
THAT WE HAVE DISPOSED OF OUR INTEREST IN THE
AMERICAN BANK STATIONERY COMPANY
AND HAVE ORGANIZED
THE OSCAR T. SMITH & SON CO.
WE WILL OCCUPY OUR BUILDING AT
407-9-11 E. SARATOGA STREET
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WHERE WE HAVE INSTALLED A COMPLETE EQUIPMENT FOR
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OUR EFFORTS WILL BE DEVOTED EXCLUSIVELY TO
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This company renders skilled service based on thorough knowledge of planting. We guarantee, in the failure of any plants to live within twelve months, to furnish new plants for replacement. Our nurseries cover 75 acres containing hundreds of thousands of beautiful, flourishing and growing plants. A large organization of salesmen and landscape gardeners at your service.

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Nurserymen—Landscape Gardeners
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ICE MAKING PLANTS
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for All Purposes

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A good report by a New York engineer is a great help in interesting New York Banking Houses in the new capital needs of worthwhile companies.
We also assist in establishing the right Banking House contacts.
Consolidations, Reorganizations, Technical Service, Management.
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120 Broadway Consulting Engineer New York

"The 1927 Blue Book of Southern Progress appears to be a wonderful success over previous books and should be a world of good to the South. Harry W. Davis, Secretary, Delaware Registration Trust Company, Wilmington, Delaware.

WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

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GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

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GIDDINGS & ROGERS CO.

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BIRMINGHAM
ALABAMA



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close December 27, 1927.

Proposals for Cast-Iron Water Mains. Office of Constructing Quartermaster, Fort Bragg, N. C. Sealed proposals will be received here until 10 A. M. December 27, 1927, and then opened, for the construction and completion of Cast-Iron Water-Supply System at Fort Bragg, N. C. \$25 deposit required for drawings, etc. Further information on application.

Bids close January 3, 1928.

WAR DEPARTMENT, United States Engineer Office, Montgomery, Alabama, December 1, 1927. SEALED BIDS, in triplicate, will be received until 12 noon, Central time, January 3, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing and delivering two 80-foot creosoted wooden decked barges. Further information on application.

Bids close December 27, 1927.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., November 28, 1927.—SEALED BIDS will be opened in this office at 3 P. M. December 27, 1927, for construction of new mailing vestibule, etc., at the United States Postoffice, Lexington, Ky. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close December 30, 1927.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., December 2, 1927.—SEALED BIDS in duplicate will be received until 3 P. M. December 30, 1927, and then publicly opened, for the remodeling, etc., of hospital building and pharmacist's quarters, United States Marine Hospital, Key West, Fla. Drawings and specifications may be obtained from the medical officer in charge of the buildings at Key West, Fla., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close December 19, 1927.

\$325,000 Refunding Bonds

Vicksburg, Miss.

SEALED BIDS will be received by the Mayor and Aldermen of the City of Vicksburg, State of Mississippi, at the City Hall in the City of Vicksburg, at 4 o'clock P. M. on the

19th DAY OF DECEMBER, 1927, for three hundred and twenty-five thousand dollars (\$325,000) Refunding bonds of the City of Vicksburg, dated February 1, 1928, payable \$7000 on February 1 of each of the years 1929 to 1933, inclusive, \$13,000 on February 1 in each of the years 1934 to 1943, inclusive, and \$16,000 on February 1 in each of the years 1944 to 1953, inclusive, bearing interest at the rate of a sum not greater than five per centum per annum, payable semi-annually February 1 and August 1 in each year, and being of the denomination of \$1000 each and registerable as to principal only.

All bids must be unconditional, and no bid below par will be considered. Each bid shall be enclosed in a plain envelope addressed to S. S. Patterson, City Clerk, and marked "Proposal for \$325,000 Refunding bonds," and shall be accompanied by a certified check for an amount not less than three per cent of the amount of bonds bid for.

The purchaser shall furnish the bonds for this issue.

The right to reject any and all bonds is reserved.

The opinion of Messrs. Thomson, Wood & Hoffman of New York City approving the validity of said bonds will be furnished to the purchaser free of charge.

By order of the Mayor and Aldermen of the City of Vicksburg.

S. S. PATTERSON,
City Clerk.

Bids close December 29, 1927.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 791 Arlington Building, Washington, D. C., until 11 A. M. December 29, 1927, and then publicly opened, for furnishing all labor and materials and performing all work for Construction of Buildings and Utilities, including roads, walks and drainage, at U. S. Veterans' Hospital, Portland, Oregon. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, marble work, floor and wall tile, iron work, steel sash, steel stairs, with slate treads; slate, metal and built-up roofing, roof ventilators, skylight, metal lathing, plastering, carpentry, platform scales, insect screens, metal weather strip, painting, glazing, hardware, plumbing, boiler plant, heating, steel oil tanks and oil burners, electrical work, electric elevators, refrigerating plant and outside sewer, water, steam, gas and electric distribution system. SEPARATE BIDS will be received for Building Construction, Plumbing, Heating, Steel Oil Tanks and Oil Burners, Electrical Work, Electric Elevators, Ice-Making and Refrigerating Plant and Radial Brick Chimney, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 791 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$100, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director, November 19, 1927.

Bids close December 21, 1927.

\$58,000 Funding Bonds

NOTICE OF SALE

HAYWOOD COUNTY, NORTH CAROLINA

Waynesville, N. C.

Sealed bids, addressed to the undersigned, will be received by the Board of Commissioners of Haywood County at the office of the County Commissioners at the Courthouse at Waynesville, N. C., until the 21st day of December, 1927, at 12 o'clock noon, for the purchase of \$58,000 Funding Bonds of Haywood County, North Carolina, dated December 1, 1927, denomination \$1000 each, bearing interest at the rate of five per centum per annum, payable semi-annually June 1 and December 1, and maturing as follows:

\$2000 on December 1 in each of the years 1929 and 1930.

\$4000 on December 1 in each of the years 1931 to 1936, inclusive.

\$5000 on December 1 in each of the years 1937 to 1942, inclusive.

Coupon bonds, principal and interest payable in gold coin or lawful money of the United States of America at the Hanover National Bank, New York City, N. Y., and registerable as to both principal and interest.

These bonds will be sold for not less than par. A certified check, payable to the order of Haywood County, for two per cent of the amount of bonds bid for must accompany each bid. The right is reserved to reject all bids.

The approving opinion of Messrs. Clay, Dillon & Vandewater, Attorneys, of New York City, will be furnished to the purchaser without charge.

Dated December 8, 1927.

C. F. KIRKPATRICK,
Clerk, Board of Commissioners.

Notice

Tallahassee, Fla.

The City of Tallahassee, Tallahassee, Florida, desires to purchase for its Sinking Funds any of the Bonds issued by said City which are listed below. No offer for any other security is desired.

FUNDS ARE AVAILABLE TO PURCHASE THE ENTIRE LIST.

Code: s—Serial Bond, General Obligation of the City.

Is—Improvement Serial Bond, with Lien as underlying Security.

Maturity	Utility	Municipality	Date Issued	Interest	Purpose or Title
2-1-28		\$5000.s	2-1-23	5%	Street Paving Bonds
3-1-28	\$5000.s		3-1-20	5%	Public Utility Imp. Bonds
6-2-28		5000.Is	6-2-24	6%	Improvement Bonds
7-1-28		2000.Is	7-1-24	6%	Improvement Bonds
2-1-29		5000.s	2-1-23	5%	Street Paving Bonds
3-1-29	5000.s		3-1-20	5%	Public Utility Imp. Bonds
6-2-29		5000.Is	6-2-24	6%	Improvement Bonds
7-1-29		2000.Is	7-1-24	6%	Improvement Bonds
2-1-30		5000.s	2-1-23	5%	Street Paving Bonds
3-1-30	5000.s		3-1-20	5%	Public Utility Imp. Bonds
6-2-30		5000.Is	6-2-24	6%	Improvement Bonds
6-1-30		2000	6-1-25	6%	Grading and Curbing Bonds
7-1-30		2000.Is	7-1-24	6%	Improvement Bonds
2-1-31		5000.s	2-1-23	5%	Street Paving Bonds
3-1-31	6000.s		3-1-20	5%	Public Utility Imp. Bonds
6-2-31		5000.Is	6-2-24	6%	Improvement Bonds
7-1-31		2000.Is	7-1-24	6%	Improvement Bonds
2-1-32		5000.s	2-1-23	5%	Street Paving Bonds
3-1-32	6000.s		3-1-20	5%	Public Utility Imp. Bonds
6-2-32		5000.Is	6-2-24	6%	Improvement Bonds
7-1-32		2000.Is	7-1-24	6%	Improvement Bonds
2-1-33		5000.s	2-1-23	5%	Street Paving Bonds
3-1-33	6000.s		3-1-20	5%	Public Utility Imp. Bonds
4-1-33	2000.s		4-1-27	5 1/2%	Gas Plant Ext. Bonds
4-1-33	4000.s		4-1-27	5 1/2%	Water Works Ext. Bonds
4-1-33		3000.s	4-1-27	5 1/2%	Municipal Incinerator Bonds
4-1-33		1000.s	4-1-27	5 1/2%	Gaines St. Paving Bonds
4-1-33		2000.s	4-1-27	5 1/2%	Sewer Ext. Bonds
4-1-33		3000.s	4-1-27	5 1/2%	Storm Drainage Bonds
6-2-33		5000.Is	6-2-24	6%	Improvement Bonds
7-1-33		2000.Is	7-1-24	6%	Improvement Bonds
	\$39,000.	\$83,000.			

B. H. BRIDGES,
City Auditor and Clerk.

Bids close December 12, 1927.

Water Mains and Appurtenances

Towson, Md., November 8, 1927.

Sealed Proposals, addressed to the County Commissioners of Baltimore County and endorsed bids for excavation and the laying of water mains and appurtenances thereto, in "ROSEMONT AND ENGLISH CONSUL, Contract 14-W and 15-W; STONELEIGH, GRAY MANOR AND FALLS ROAD, Contract 16-W and 17-W; SOLLERS POINT ROAD, TURNERS STATION AND MIDDLE RIVER, Contract 18-W and 19-W," will be received at their office in the Courthouse, Towson, Maryland, until 11 A. M., Eastern Standard time, on December 12, 1927 next, when they will be publicly opened and read.

Approximate list of quantities of Contract No. 14-W (Excavation and Refill):

- 10,680 Lin. Ft. earth excavation and refill for 6-inch pipe.
- 4,205 Lin. Ft. earth excavation and refill for 8-inch pipe.
- 3,315 Lin. Ft. earth excavation and refill for 12-inch pipe.
- 175 Cu. Yds. Class "A" rock excavation and earth refill.
- 125 Cu. Yds. Class "B" rock excavation and earth refill.
- 75 Cu. Yds. Class "C" rock excavation and earth refill.
- 25 Cu. Yds. miscellaneous and test pit earth excavation and refill.

Miscellaneous items, including cinder, gravel and concrete repaving.

Approximate list of quantities of Contract No. 15-W (Pipe Laying):

- 11,805 Lin. Ft. laying 12-foot lengths, 6-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths, lead joints.
- Alternate bid, 16-foot lengths, leadite joints.
- 4,650 Lin. Ft. laying 12-foot lengths 8-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths, lead joints.
- Alternate bid, 16-foot lengths, leadite joints.
- 3,665 Lin. Ft. laying 12-foot lengths 12-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths, lead joints.
- Alternate bid, 16-foot lengths, leadite joints.

9 Placing fire hydrants.

Miscellaneous items.

Approximate list of quantities of Contract No. 16-W (Excavation and Refill):

- 7,400 Lin. Ft. earth excavation and refill for 6-inch pipe.
- 3,400 Lin. Ft. earth excavation and refill for 8-inch pipe.
- 475 Lin. Ft. earth excavation and refill for 10-inch pipe.
- 6,600 Lin. Ft. earth excavation and refill for 12-inch pipe.
- 500 Lin. Ft. earth excavation and refill for 16-inch pipe.
- 300 Cu. Yds. Class "A" rock excavation and earth refill.
- 200 Cu. Yds. Class "B" rock excavation and earth refill.
- 200 Cu. Yds. Class "C" rock excavation and earth refill.
- 25 Cu. Yds. miscellaneous and test pit earth excavation and refill.

Miscellaneous items, including cinder, gravel and concrete repaving Lump Sum Crossing N. C. R. R. tracks on Falls Road.

200 Lin. Ft. excavating trench, furnishing and laying 8-inch Vit. pipe.

Approximate list of quantities of Contract No. 17-W (Pipe Laying):

- 8,182 Lin. Ft. laying 12-foot lengths 6-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths, lead joints.
- Alternate bid, 16-foot lengths, leadite joints.
- 3,313 Lin. Ft. laying 12-foot lengths 8-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths, lead joints.
- Alternate bid, 16-foot lengths, leadite joints.

- 525 Lin. Ft. laying 12-foot lengths 10-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths lead joints.

Alternate bid, 16-foot lengths, leadite joints.

- 7,270 Lin. Ft. laying 12-foot lengths, 12-inch mains, valves and fittings, lead joints.

Alternate bid, 16-foot lengths, lead joints.

Alternate bid, 16-foot lengths, leadite joints.

- 1,103 Lin. Ft. laying 12-foot lengths 16-inch mains, valves and fittings, lead joints.

Alternate bid, leadite joints.

Alternate bid, 16-foot lengths lead joints.

Alternate bid, 16-foot lengths, leadite joints.

15 Placing fire hydrants.

Miscellaneous items.

Approximate list of quantities of Contract No. 18-W (Excavation and Refill):

- 5,550 Lin. Ft. earth excavation and refill for 6-inch pipe.
- 300 Lin. Ft. earth excavation and refill for 8-inch pipe.
- 12,870 Lin. Ft. earth excavation and refill for 10-inch pipe.
- 3,560 Lin. Ft. earth excavation and refill for 12-inch pipe.
- 300 Cu. Yds. Class "A" rock excavation and earth refill.
- 200 Cu. Yds. Class "B" rock excavation and earth refill.
- 100 Cu. Yds. Class "C" rock excavation and earth refill.
- 25 Cu. Yds. miscellaneous and test pit earth excavation and refill Lump Sum Crossing Pa. R. R. tracks at Middle River.

528 Lin. Ft. excavating trench, furnishing and laying 8-inch Vit. pipe.

Miscellaneous items, including cinder, gravel and concrete repaving.

Approximate list of quantities of Contract No. 19-W (Pipe Laying):

- 6,050 Lin. Ft. laying 12-foot lengths 6-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths lead joints.
- Alternate bid, 16-foot lengths, leadite joints.
- 300 Lin. Ft. laying 12-foot lengths 8-inch mains, valves and fittings, lead joints.
- Alternate bid, leadite joints.
- Alternate bid, 16-foot lengths lead joints.
- Alternate bid, 16-foot lengths, leadite joints.

- 13,210 Lin. Ft. laying 12-foot lengths 10-inch mains, valves and fittings, lead joints.

Alternate bid, leadite joints.

Alternate bid, 16-foot lengths lead joints.

Alternate bid, 16-foot lengths, leadite joints.

- 3,955 Lin. Ft. laying 12-foot lengths 12-inch mains, valves and fittings, lead joints.

Alternate bid, leadite joints.

Alternate bid, 16-foot lengths lead joints.

Alternate bid, 16-foot lengths, leadite joints.

- 248 Lin. Ft. laying 12-inch pipe on brackets furnished by Commissioners on Middle River Bridge.

- 248 Lin. Ft. covering 12-inch pipe on Middle River Bridge.

22 Placing fire hydrants.

Miscellaneous items.

Each bid, excavating and laying, must be separately totaled and each accompanied by a certified check for one thousand (\$1000) dollars, payable to the County Commissioners, as a guarantee that the successful bidder will sign the contract.

A bond for an amount equal to the amount of the bid of a surety company satisfactory to the Commissioners will be required of the successful bidder. A copy of the Specifications, Plans and Drawings will be furnished prospective bidders on receipt of a certified check for Twenty-five (\$25) Dollars, refund of which will only be made upon receipt of a bona fide bid and return of the specifications and drawings to the office of the Chief Engineer of the Baltimore County Metropolitan District within ten (10) days after the opening of bids and award of the contract. No specifications or drawings will be issued after Thursday, December 8, 1927. Specifications and drawings can be seen at the office of the Chief Engineer of the Baltimore County Metropolitan District, Towson, Maryland, after November 21, 1927.

Consideration will be given bidders' experience (must be stated in or attached to the bid), financial standing and reputation for having done successful work of the kind

specified without controversy or litigation, and the Commissioners reserve the right to reject any or all proposals or bids, or proposals or bids that contain items exceedingly high or low, or to accept any proposal or bid or parts of bids, or to separate the bid for excavation and refill from laying of the pipe and setting hydrants, or to award the contract to one bidder or divide it among several bidders, or to waive technicalities, as they may deem best for the interest of the county.

By order of the Board.

JOHN R. HAUT, Chief Clerk.

A. E. WALDEN, Chief Engineer.

Bids close January 3, 1928.

Concrete Arch Bridge

Danville, Va.

Sealed proposals for the construction of Plan "A" and Plan "B" concrete arch bridge at Worsham Street, Danville, Virginia, across the Dan River, about 1225 feet long, will be received by the City Council at the Council Chamber, Danville, Virginia, until 8 o'clock P. M. January 3, 1928, and at that time and place will be publicly opened and read.

Each bid will be enclosed in a sealed envelope, accompanied by a certified check on a local bank in the sum of \$5000, made payable to the City of Danville as good faith in proposals submitted.

If proposals are presented on both plans of bridges, the two proposals can be submitted in one sealed envelope and the same accompanied by one certified check in the sum of \$5000.

Plans and specifications may be examined at the office of the City Engineer, Danville, Virginia, after December 10, 1927, and copies of plans and specifications may be had from the City Engineer after this date for the sum of \$25, which amount will be returned when the plans and specifications are returned to the City Engineer intact, provided they are not retained more than three months.

Each bidder will file with his proposal answers to the questions relating to qualifications and a financial statement for 1927. The right is reserved by the City Council to reject any and all proposals.

C. L. SCOTT, JR.,
City Engineer.

Bids close December 30, 1927.

Pumping Plant

Bradenton, Fla.

Sealed proposals addressed to City of Bradenton, Bradenton, Florida, and marked "Sealed Proposal" will be received until 1.30 P. M. December 30, 1927, to be opened immediately thereafter, for furnishing material, equipment and labor and constructing certain work approximately as follows:

- 2 1750-G.P.M. Centrifugal Pumps, each direct-connected to multi-cylinder gasoline engines.
- 2 750-G.P.M. Centrifugal Pumps, each direct-connected to electric motors.
- 1 100-K.W. Multi-Cylinder Vertical Gasoline Engine or Diesel Engine driven A.C. generating unit, direct-connected.
- 1 Switch and Gauge Board.
- 1 5-Ton Hand-operated Traveling Crane.
- 1 Pumping Station Building of Concrete and Brick.
- 1 Reinforced Concrete Reservoir, 60 feet in diameter and 24 feet deep, complete with concrete roof.
- 1 Erecting Machinery and making hydraulic and electrical connections.

Each bid is to be on blank forms furnished by the Commissioner of Public Works, and is to be accompanied by a certified check or bid bond issued through a local agency by a bonding company qualified to do business in the State, made payable to City of Bradenton, Florida, for 5 per cent of bid.

Certified check or bid bond will be forfeited as liquidated damage if contract and bond are not executed within the time specified, if proposal is accepted; otherwise will be returned within ten days.

The right is reserved to reject any and all bids.

Specifications may be seen at the office of the Clerk and the office of Commissioner of Public Works, and specifications may be obtained from the Commissioner of Public Works.

R. K. VAN CAMP,
Commissioner Public Works.
L. L. HINE, City Clerk.

E. V. CAMP & ASSOCIATES, INC.,
Consulting Engineers,
Atlanta, Ga.; Bartow, Fla.

Bids close December 16, 1927.

State Highway Construction

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, Tenn., at 10 A. M. Friday, December 16, 1927, and opened publicly at that hour, for the construction of the following projects:

Project No. 18-B, SHELBY COUNTY—Grading and drainage of 11.204 miles of State Highway No. 15, between State Highway No. 1, near Bartlett and the Fayette County line. Three bridges over 20-foot span will be included with the roadway contract.

Project No. 36-G, SHELBY COUNTY—Grading and drainage of 1.819 miles of State Highway No. 1, between Memphis City limits and F. A. P. 36-D. One bridge over 20-foot span will be included with the roadway contract.

Project No. 121-C, HUMPHREYS COUNTY—Grading and drainage of 12.189 miles of State Highway No. 1, between the Tennessee River and Waverly.

Project No. 123-E, PUTNAM COUNTY—Grading and drainage of 10.157 miles of State Highway No. 24, between the Smith County line and S. A. P. 123-D.

Project No. 195-A, CARROLL COUNTY—The construction of an asphaltic concrete pavement on a concrete base on 9.976 miles of State Highway No. 22, between Huntingdon and McKenzie. Alternate bids will be received for rock asphalt and sheet asphalt surfacing on a concrete base. The grading and draining for this project has been completed under a former contract.

Project No. 195-B, CARROLL COUNTY—Grading and drainage of 12.727 miles of State Highway No. 44, between the Henderson County line and Huntingdon. Bids for eight bridges over 20-foot span will be received separately.

Project No. 210-A, KNOX COUNTY—The construction of an asphaltic concrete pavement on a concrete base on 7.061 miles of State Highway No. 1, between the Knoxville corporation line and Three Points. Alternate bids will be received for rock asphalt and sheet asphalt surfacing on a concrete base. The grading and draining for this project has been completed under a former contract.

Project No. 210-B, KNOX COUNTY—Grading and drainage of 5.728 miles of State Highway No. 1, between Three Points and the Grainger County line. Two bridges over 20-foot span will be included with the roadway contract.

Project No. 214-A, CHESTER COUNTY—Grading and drainage of 4.244 miles of State Highway No. 5, between Henderson and the Madison County line. Bids for three bridges over 20-foot span will be received separately.

Project No. 214-B, MADISON COUNTY—Grading and drainage of 11.422 miles of State Highway No. 5, between the Chester County line and a point near Jackson. Bids for seven bridges over 20-foot span will be received separately.

Project No. 322-B, McMINN COUNTY—Grading and drainage of 2.841 miles of State Highway No. 2, between Athens and F. A. P. No. 60.

Project No. 324-B, Project No. 215-A, HAWKINS-GREENE COUNTIES—The construction of a cement concrete pavement on 17.442 miles of State Highway No. 34, between the Hamblen County line and Greenville. The grading and draining for this project has been completed under a former contract.

Project No. 371-A, PUTNAM COUNTY—Grading and drainage of 14.134 miles of State Highway No. 74, between Cookeville and Monterey. One bridge over 20-foot span will be included with the roadway contract.

Project No. 372-A, LOUDON COUNTY—Grading and drainage of 4.342 miles of State Highway No. 2, between Lenoir City and the Tennessee River.

Project No. 372-B, LOUDON COUNTY—Grading and drainage of 6.661 miles of State Highway No. 2, between the Monroe County line and Loudon. One bridge over 20-foot span will be included with the roadway contract.

Project No. 373-A, MONROE COUNTY—Grading and drainage of 6.466 miles of State Highway No. 2, between the McMinn County line and the Loudon County line.

Project No. 302-C, DYER COUNTY—The construction of a cement concrete pavement on 15.514 miles of State Highway between Heloise and Dyersburg. The grading and draining for this project has been completed under a former contract.

Project No. 170-B, MARION COUNTY—The construction of four concrete deck girder

bridges on 0.110 mile of State Highway No. 2, between S. A. P. No. 170 and Jasper.

Project No. 180-C, GILES COUNTY—The construction of one concrete and steel bridge on 0.076 mile of State Highway No. 15 over Richland Creek.

Project No. 334-C, MARSHALL COUNTY—The construction of a concrete deck girder bridge on 0.028 mile of State Highway No. 51 over Rich Creek.

Project No. 364-B & C, OBION COUNTY—The construction of six concrete pile, timber pile and steel bridges on 0.803 mile of State Highway No. 41, between Kenton and Union City.

S. B. P. No. 6, HANCOCK COUNTY—The construction of a concrete and steel bridge on 0.080 mile of State Highway No. 66 over Clinch River.

S. B. P. No. 8, MONROE COUNTY—The construction of a concrete and steel bridge on 0.211 mile of State Highway No. 64 over the Little Tennessee River.

Project No. 300-B, CRITTENDEN COUNTY, ARKANSAS-SHELBY COUNTY, TENNESSEE—Construction of driveways on the Harahan Bridge over the Mississippi River at Memphis, Tennessee. Approximately 4850 feet long, with two driveways 14 feet wide.

Project No. 324-C, HAWKINS COUNTY—Grading and drainage of 0.189 mile of State Highway No. 34 at Bulls Gap.

Bidder's bond, on the form furnished with the proposal, from a surety acceptable to this Department or certified check, made payable to this Department, in the amount of not less than five per cent (5%) of the total bid must accompany the bid as evidence of good faith, and as guarantee that if awarded the contract the bidder will execute contract and give bond as required.

Plans will be furnished at cost, with no refund. Standard Specifications are furnished at a charge of \$1.00, with no refund. Proposals are furnished free of charge.

The right to reject any or all bids is reserved.

C. N. BASS, Commissioner.

Bids close December 19, 1927.

Sanitary Sewer System

Avon Park, Fla.

Sealed proposal for furnishing material and constructing sanitary sewers, sewage-disposal plant and a sewage pumping station for the City of Avon Park, Florida, will be received by the City Council at the City Hall until two (2) P. M. December 19, 1927.

The work will consist of approximately 3.5 miles of sanitary sewers, sizes 6 in., 8 in., 12 in. and 15 in.; 1.5 miles of 10-in. cast-iron force main, sewage pumping station and disposal plant.

Each proposal must be accompanied by a certified check, payable to the City of Avon Park, Fla., to an amount equal to five (5%) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file in the office of the City Clerk and City Engineer at Avon Park, Fla., and with Wiedeman & Singleton, Engineers, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies of specifications from the Engineers or the City Clerk by enclosing certified check for fifteen (\$15) dollars, payable to the City of Avon Park. If blueprints are desired, they may be had at the cost of printing. If plans, specifications and blueprints are returned within thirty days after opening bids, the check for fifteen dollars will be returned.

WILLIAM KING, Mayor.

E. P. LACEY, City Engineer.

LOUISE BROWN, City Clerk.

WIEDEMAN & SINGLETON,
(Successors to Paul H. Norcross),
Engineers,

1404 Candler Building,
Atlanta, Georgia.

Bids close December 14, 1927.

Courthouse and Jail

CHEROKEE COUNTY COURTHOUSE

Canton, Ga.

Sealed proposals will be received on or before 12 o'clock noon, Central time, December 14, 1927, at the Bank of Canton, Georgia, for the following work and under the following rules and conditions:

The building is to be located on the prop-

erty of the county, located in Canton, Ga., at the northwest corner of North Main Street and North Church Street, and is to be a modern reinforced concrete frame building, with brick and marble enclosing walls, two stories and basement in part and four stories and basement in part. The building will cover an area on the ground of approximately 93 feet by 82 feet; otherwise as described in complete detail in plans, specifications and bid blank.

Bids will be received upon the following work, as more specifically shown and specified by the plans and specifications:

1—General Contractor's work (including mechanical work).

2—Jail work.

Plans and specifications for the above, together with bid blank, can be secured from A. Ten Eyck Brown, Architect, 717-20 Forsyth Building, Atlanta, Ga., upon deposit of a certified check for \$10, this check to be retained until the return of the plans and specifications in complete shape to the Architect. Plans and specifications, together with copy of contract, to be signed by successful bidder, showing the extent and character of the work to be done and the terms and time of payment, bond to be required, etc., are on file with said Architect and in the office of the Commissioner of Roads and Revenues of Cherokee County, Georgia, and are hereby referred to for a more detailed statement.

All bids to be considered must be received on or before 12 o'clock noon, Central time, December 14, 1927, and must be submitted on blanks to be furnished by the Architect covering formal items as called for by the specifications; each bid must be accompanied by a certified check for 2% of base bid, payable to E. A. McCanless, Chairman, as agreed liquidated damages in case the low bidder fails to sign contract and make proper bond.

The form of contract to be used will be that of the American Institute of Architects, Fourth Edition, 1925, as approved by the National Association of Builders.

All bids should be addressed to Mr. E. A. McCanless, Chairman Board of New Courthouse Commissioners, Canton, Ga., with the contents of each bid plainly marked on cover.

The right is reserved to reject any or all bids.

COUNTY OF CHEROKEE, GEORGIA.

By the New Courthouse Commissioners of Cherokee County; E. A. McCanless, Chairman thereof, and W. E. Reece, Clerk; R. Olin Fincher, Commissioner of Roads and Revenues of Cherokee County, Ga.

Bids close December 16, 1927.

Schools

Birmingham, Ala.

Sealed proposals will be received by the Board of Education, Birmingham, Alabama, on or before 2 o'clock P. M. Friday, December 16, 1927, for the erection and completion of Additions to the following Elementary Schools to be erected in Birmingham, Ala.: ACIPO, BUSH, GLEN IRIS, KENNEDY,

COUNCIL

also the erection and completion of the following new buildings
MINNIE HOLMAN and
WOODROW WILSON.

Bids are invited on one building, all of the buildings or any number of the buildings. Combination bids are invited on one, all or any number of buildings and their divisions. The work on each building will be divided into the following base bids:

1. General Work.
2. Plumbing, Sewering and Gas Fitting.
3. Heating and Ventilation.
4. Electric Work.

The plans and specifications of all buildings can be seen at the office of the Board of Education, Birmingham, Alabama, and the offices of Warren, Knight & Davis, Architects, Empire Building, Birmingham, Ala., and Wm. B. Ittner, Consulting Architect, St. Louis, Mo.

Plans and specifications may be procured from the office of the Architects by forwarding deposit checks as follows:

General Plans and Specifications, \$10 per set.

Plumbing, Heating and Wiring, \$20 for the entire group of seven buildings. Deposits to be refunded under provisions mentioned in "Instructions to Bidders."

The Board reserves the right to reject any or all bids.

By order of the Board of Education of Birmingham, Alabama.

By D. E. MCKINLEY,
Business Manager.

Bids close December 13, 1927.

Dredging Channel

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.
SEALED PROPOSALS for Dredging a Channel as follows:

Cont. Wo-55—A channel at Sinepuxent Inlet, 3 miles south of Ocean City, in Worcester County, approximately 4900 feet long and 150 feet wide at bottom and 3 feet deep at mean low water, with proper side slopes.

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 13th day of December, 1927, at which time

and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 29th day of November, 1927.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close December 15, 1927.

Dredging and Rock Removal at St. Lucie Inlet, Florida

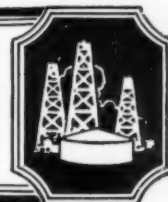
Stuart, Fla.

Office of Board of Commissioners of Martin-St. Lucie Counties Improvement District, in Martin and St. Lucie Counties, Florida, Stuart, Florida.

Sealed bids will be received here until 2 P. M. December 15, 1927, and then publicly opened, for dredging and rock removal at St. Lucie Inlet, Florida. Further information on application to this office or to the office of Gilbert A. Youngberg, Chief Engineer, 21 Laura street, Jacksonville, Florida. Specifications and drawings upon request and deposit of \$10.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

MINERAL PROPERTIES

Kaolin, feldspar, mica, asbestos, cynite, corundum, garnet, gold and other metallic minerals. If interested in the above minerals write me.

W. B. McGUIRE, Franklin, N. C.

LIMESTONE DEPOSITS

FOR SALE—Limestone Deposits, unlimited supply, near Hawkinsville, Ga.
ROBT. S. ANDERSON,
Hawkinsville, Ga.

TIMBER CRUISER

TIMBERLAND CRUISING and values given anywhere. Also operating plans furnished. Advice as to yearly growth in value of young timber. Many years' practical experience.
W. J. MCGOVERN, Timber Cruiser,
Clearfield, Pa.

TIMBER AND TIMBER LAND

FOR SALE—Hardwood timber in tracts of 2000, 4000, 6000, 26,000, 50,000 acres. Each finest grades forked leaf white oak, red oak, ash and hickory. Mill sites, Investments, Bargains. Geo. M. Brasfield, Trenton, Tenn.

FOR SALE—By owner, approximately six million ft. virgin timber, both pine and hardwoods, on lands fronting Alabama River in Clarke county, Ala.; fine milling proposition. \$30,000. J. S. Lambard, Box 62, Dallas, Tex.

TIMBER LAND FOR SALE—Northwestern Arkansas; 7000 acres virgin hardwood, oak, hickory, ash, walnut, gum and lin.; 50% tillable land, cut 25,000,000 feet; \$7.50 per acre. F. H. SCHOENBECK, 7 N. Sixth St., Fort Smith, Ark.

TIMBER OPERATION

REAL BARGAIN CAN BE HAD IN THIS 40 to 50 Million feet Pine and Cypress Timber, New Band Mill, Tram and Locomotives and all other Equipment required to operate Sawmill. Plant is less than year old and can be sawing lumber in five days. For sale at Half Price to close partnership. OTHER TIMBER TRACTS AND LARGE TRACTS OF CUTOVER SOUTHERN LANDS.

F. L. GIBSON,
Thomasville, Georgia.

FARM AND TIMBER LAND

ONLY \$6 PER ACRE FOR GEORGIA LAND AND TIMBER.

Twenty-five hundred acres in Southeast Georgia, including about three million feet original growth Long and Short-leaf Pine Timber and some Hardwood; tract will also cup more than a crop of turpentine boxes; two miles from railroad; 125 acres now cultivated; 90 per cent of balance good farm land, suitable for corn, cotton, tobacco, sugar cane, etc. Two five-room houses, barns, out-buildings, all included at \$6 per acre fee simple; investigate.

KISTNER BROTHERS, Zolfo Springs, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

"FLORIDA BOUND."

If you enjoy Life, you'll love FLORIDA; "everybody" is going to FLORIDA this season—some for its Superb Climate, others to make safe and solid investments now, while it's still "bargain time," and return later to live; others to buy an inexpensive little home, Poultry Ranch, Truck Farm or Grove and "take life easy." We can "fit you up." Send today for booklet and list. TAMPA-WEST COAST REALTY CO. (INC.), Realtors, Opp. P. O. "Since Before the War," Tampa, Florida.

LOUISIANA

CUT-OVER LAND

5000 acres cut-over pine Louisiana land on T. & P. R. R. and model road; railroad station in center of tract. Price \$5 per acre. 5500 acres alluvial Louisiana land on railroad. Price \$6.50 per acre.

W. A. STEPHENS, Realtor,
P. O. Box 555, Shreveport, Louisiana.

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

TEXAS

50-ACRE FARM and good home for sale, on highway, near school. Apply to F. L. DURBON, Route Box Hondo R. A., Medina County, D'Hanis, Texas.

WE CONTROL 2,000,000 acres of land in South Texas; 10,000-20,000 acres, \$20 acre. Wanted colonizers, capital to finance; millions profits. Agent, 211 West Craig, San Antonio, Texas.

WINTER GARDENS, TEXAS—15,000 to 75,000 acres. Finest of soil; artesian section; river; railroad; \$11.25 to \$16.25; easy terms. Samuel H. Smith, San Antonio.

WE HAVE 10,000 acres in tracts to suit, irrigated. Prepared to cultivate for \$200 per acre, in the rough state \$60 per acre, in the winter garden irrigated district, "where the sunshine spends the winter." Pays to investigate.

ACME REALTY COMPANY,
211 West Craig, San Antonio, Texas.

"TEXAS 'WINTER GARDEN' LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY, Realtors,
501-4 Houston Building,
San Antonio, Texas.

SUB-DIVISION PROPERTY

ATTENTION, Townsite Companies—I own 365 acres, high and overlooking city of Jacksonville, Texas, new Oil Town in Cherokee Co. This acreage one-third in city limits, balance adjoining water and sewerage line adjoining gas and electric lines running through property. Ideal for industrial and subdivision. F. E. Churchill, Jacksonville, Texas.

CITY AND SUBURBAN PROPERTY

YOU CAN MAKE \$1,000,000 profit if you will buy and develop 95-acre tract of land in the District of Columbia, just two miles from the White House, in the best residential section of Washington. This is the last tract of land of its kind left in the District, and it can be bought for the astounding low price of 12 cents a foot. For particulars address

CHARLES N. JOYCE,
Fendall Building,
Washington, D. C.

NEW JERSEY REAL ESTATE

NORTHERN NEW JERSEY REAL ESTATE

Manufacturing plants and sites, with railroad siding and some with waterfronts. Acreage, beautiful houses, cozy bungalows, stores, seashore property.

Also in Rahway and environs, where the Lincoln, Seashore and Vehicular Tunnel highways converge with the main line of the P. R. R., 20 miles to New York, 90 commuter trains daily. Millions of autos pass through Rahway annually. Combination of railroad and motor transportation makes Rahway good base for serving greater New York and nation.

Frontage on highways suitable for manufacturing wholesale and retail exhibiting and selling products for local and national distribution.

Confidential correspondence invited. Write for photos. Phone, Rahway 1333.
PETER A. SENSENIG, 10 W. SCOTT AVE.
at Scott Ave. Sta., RAHWAY, N. J.

HOTEL FOR SALE

HOTEL IN FLORIDA

Small hotel, with big future, for sale in the high ridge lake section of Northern Florida. All-year demand. Winter resort for Northern people and summer resort for Floridians. This is a bona fide going proposition in one of Florida's most favored and strategic spots. Thorough investigation invited. References as to character, ability and responsibility required. Address
J. E. LARSON, Keystone Heights, Fla.

BUSINESS OPPORTUNITIES

WRITE TO L. WUESTE, P. O. Box 183, Eagle Pass, Texas, for information on the biggest gravity irrigation project in the State; unusual possibilities.

BUSINESS OPPORTUNITIES

WASHINGTON RESIDENT, former high Government official, wants connections with manufacturing or business concerns desiring Government business or having business before Government departments. Information in regard to pending legislation on any subject. Terms consistent with services rendered. No. 6836, care Manufacturers Record.

OKLAHOMA CITY, OKLA., has just voted over Ten Millions in Bonds. Largest improvement program under way of any city Southwest. Now is the time to look her over. We have for sale any and all kinds of Business Chances.

One well-established Beauty Parlor and School with over \$10,000 per annum income. 75 to 100 students, established 15 years; only high-class instruction of its kind in city. Owner has to sell on account of invalid husband. Pays over \$6000 per year net and has full equipment, long leases and good local patronage. Price \$6500, or will sell one-half interest, with full management, for \$3500. Easy terms.

Well-established Business College.
Well-established Picture Show.
2 Good Paying Hotels.
3 Good Restaurants.
2 Small and one large Grocery Stock.
News and Cigar Stands.
Cab and Transfer Line.
City and Business Lots.
Improved and Unimproved Farms, Ranches and Acreage.

We buy, sell and trade all over Oklahoma. Write or call if interested in getting located in the Metropolis of the State.

OKLA-LAND-LOAN-CO.
507 to 10 Oil Exchange Building.
Oklahoma City, Okla.

INDUSTRIES WANTED

WARREN, ARKANSAS, population ten thousand, paved streets, electric lights; growing fast. Climate and health exceptionally good, abundance of labor, two railroads, high-power electrical lines and within ten miles of natural gas main. Daily lumber production 500,000 feet, with other industries, splendid cotton-oil mills, good schools, fine churches and fine people. Warren has an unlimited amount of raw material for manufacturing furniture, cotton and other allied industries. Taxes are low and desirable trackage sites, as well as industrial sites, could be furnished to reputable people. Two excellent banks and office buildings comparable with the best in the state. We invite correspondence and investigation. Address Chamber of Commerce, Warren, Arkansas.

HOUSTON, TEXAS, the magic city of the South, where seventeen railroads meet the sea. Steamers to and from all parts of the world sail from our Great Port.

We wish cotton mills.
Wonderful climate, cheap labor, unsurpassed location for mill, twelve miles city limits, on Main Concrete Highway Main line railway, to be double tracked soon; natural gas line through tract, high-power electric line across it. Owner will sell mill site of 400 acres for \$100,000; \$25,000 cash, \$25,000 stock in mill, balance one to ten years at six per cent interest. Adjoining property recently sold for \$333 per acre cash.

Investigation requested.
GOHLMAN, LESTER & CO., INC.,
Cotton Factors,
Houston, Texas.

INDUSTRIAL PLANTS

FOR RENT—Modern daylight factory building, Fredericksburg, Va.; 10,000 sq. ft. floor space; good opportunity. Address inquiries to the Secretary, **PHILIP N. STERN**, Fredericksburg, Va.

HYDRO-ELECTRIC PLANT For Sale—300-horsepower, 200 K. W. generator. Right of way for transmission line to town on railroad already bought. Good place for flour mill, cotton factory, etc. Small cash payment, balance one cent per kilowatt hour of current output until paid. Address No. 6837, care of Manufacturers Record.

IN A THRIVING CITY, more than 20,000 population, with six railroads, we would offer for brokerage or consignment proposition or would rent outright. A new brick building, with 12,000 sq. ft. floor space, on trackage; also an old frame building, same floor space, on large lot adjoining.
THE THOMPSON GROCERY COMPANY,
Jackson, Tenn.

FACTORY SITES

FOR SALE—360 acres, situated 8 miles from business center of Atlanta; about 3000 feet railroad frontage; suitable for large industries and their village sites. Taxes are exempt for 5 years on new industrial plants.
CRAIG COFIELD, Oakland, Florida.

TAMPA, FLORIDA—the logical distributing point. **HARRIS TERMINALS**—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for **WAREHOUSE** and **FACTORY** sites. Prices and terms reasonable. **HARRIS REALTY CO.**, Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **WATSON E. COLEMAN**, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. **PAUL B. EATON**, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. **VICTOR J. EVANS & CO.**, 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. **Chandlee & Chandlee**, 412 Seventh St. N. W., Washington, D. C.

COLLECTION

WE COLLECT Accounts, Notes, Claims anywhere in U. S. and Canada. No charges unless collected. Es. 25 years; bank ref. **May's Collection Agency**, Somerset, Ky.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECHNICAL SERVICE COMPANY,
Woolworth Building New York City

BRANCH OFFICE SERVICE

HOUSTON, TEXAS,
Branch Office Service.
Personal Representation. Mail Forwarding.
Correspondence Solicited.
EDWARD L. BLOSSAT,
P. O. Box 680, Houston, Texas.

Telephone Listing. Mail Forwarding.
Representation.
Unusual Facilities Offered for Use of
Salesmen.
Assistance in Selecting Men to Travel in
This Territory.

MANUFACTURERS AND REPRESENTATIVES' SERVICE BUREAU
Builders' Building Charlotte, N. C.

AGENCIES WANTED

MANUFACTURER'S AGENT traveling Mississippi south of A. and V. R. solicits responsible accounts on commission basis.

W. T. COSBY,
Hattiesburg, Miss.

MR. MANUFACTURER—Are you represented in the industrial and fast-growing Piedmont Section of North Carolina? A gentleman 46 years of age, with 15 years' experience selling mechanical specialties, who is well acquainted with the executives of large industrial enterprises in the territory stated above, wants to represent manufacturers of staple lines on a commission basis. No salary or drawing account wanted. Banking and business references will be gladly given. Address **R. G. S.**, 201 West Bessemer Avenue, Greensboro, N. C.

AGENCIES WANTED

AGENCIES—DEALERS.

Territories for sale of steel windows open in many parts of the United States. Write us for particulars. **ALLISON STEEL PRODUCTS COMPANY**, Chester, Pa.

ESTABLISHED MANUFACTURERS' selling agency located in Florida, representing some nationally advertised building specialties, desires two to four additional lines. Pleasant relations with architects and contractors. References furnished. Address No. 6835, care of Manufacturers Record.

AGENCIES WANTED—FOREIGN

YOUNG MARRIED COUPLE, industrious, willing and sellers, good references, wants to represent a company abroad; speaks fair French. No ties; ready to go. Answer today. No. 6838, care of Manufacturers Record.

SITUATIONS WANTED

ENGINEER OR FOREMAN, with construction experience, field work and general supervision, desires connection with general contractor or manufacturing organization. Address **L. Shaver**, Box 41, Gifford, Mich.

MANAGER, college graduate, member A. I. E. E., nine years manufacturing and engineering experience with one of the largest industries in the country, desires to locate in the Southern States. Address No. 6840, care of Manufacturers Record, Baltimore.

ENGINEER AND EXECUTIVE available January 1. Graduate civil engineer, experienced in engineering departments of first-class railways, contracting organizations and sub-branches in building field. Some organization work. Desire connection where character and industry are given consideration. Age 39, married. Will only accept employment for which am fitted. Address No. 6839, care Manufacturers Record, Baltimore, Md.

PRESIDENTS AND BOARDS OF DIRECTORS, ATTENTION—Do you need a heavy-duty executive, as't to president, gen. mgr., gen. sales mgr. to help you avoid being a victim of "Profitless Prosperity?" Advertiser, Northernized Southerner, two-degree engineering graduate, has spent 21 years in major divisions big business, production, marketing, organization, finance, 12 years of which as gen. sales adv. mgr. for several nationally known mfrs., seeks change; substantial reasons; endorsements of all former principals. No. 6841, Manufacturers Record.

MEN WANTED

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. **American Security Credit Company**,
General Offices,
St. Louis, Mo.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established seventeen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg., Buffalo, New York.

A SALESMAN

Successful salesman, experience selling power plants, can secure permanent, profitable connection. Acquaintance with industrial buyers desirable. Proven products, backed by a Surety Bond. Sell to every industrial plant, public institution, hotel and all buildings. 100% co-operation. Personal training given. Give details. Replies confidential. Position available January 1, 1927.

THE NORTH AMERICAN FIBRE PRODUCTS COMPANY

Cleveland, Ohio

MEN WANTED

WANTED—Purchasing Agent for Steel Company in Eastern Pennsylvania. Reply, No. 6829, care of Manufacturers Record, Baltimore, Md., stating age, experience and salary desired.

MACHINERY AND SUPPLIES

FOR SALE

1 Type K-2 1-yd. Link-Belt shovel, slightly used, good as new, serial No. 1124 convertible, have all attachments. 1 1-yd. Page, class "C," Dragline bucket, new, 1 3/4-yd. Blaw-Knox clamshell bucket, slightly used. Priced right. Link-Belt Co., Day Ave. and Grapeland Blvd., Coconut Grove, Miami, Fla.

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating Equipment and Household Electric Refrigerators very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.

MACHINERY AND SUPPLIES

1 Kelley Router.
No. 7 New-britten Chain Mortiser.
American Panel Raiser.
American Sash Rabbeting Machine.
American Variety Saw.
American Jigg Saw.
Fox foot Power Motor Knife.
Planer Mill Hog.
International Time-clock, suitable for 60 employees.
Two (2) Watchman's Clocks.
18x42 Corless Engine.
14x30 Timber Sizer.
These machines are offered at a real bargain; ask for prices.
DILLON SUPPLY COMPANY,
Raleigh, N. C.

LUMBER FOR SALE

SEND US INQUIRIES for Steam Kiln Dried Soft Yellow Pine Finishing, rough and dressed; Shed Stocks, Casings, Base and Mouldings. Mixed cars a specialty. Cochran Lumber Company, Cochran, Georgia.

TIMBERS AND PLANK

FOR SALE—Oak or Cypress structural and railroad timbers and plank cut to order. Poplar and Gum Squares or dimensions. Inquiries solicited.
UNITED TIMBER & LUMBER CO.,
Memphis, Tenn.

CONTRACT WORK WANTED

DEPENDABLE COMPANY, with 45 years' experience, operating well-equipped and extensive plant consisting of Pattern Shop, Foundry, Machine Shop, Forge and Structural Shop, supported by skilled mechanics and capable engineers, wants connection with reliable consulting and contracting Engineers and others who desire a plant to manufacture Machinery and Equipment to meet their requirements. Plant facilities suitable for the manufacture of light or heavy units. Grey Iron and Semi-steel castings up to 40,000 lbs.; Brass and Aluminum up to 1000 lbs. Address No. 6796, care of Manufacturers Record, Baltimore, Md.

COTTON MILL WANTED

Southern Textile Manufacturer, twenty years experience; proven ability, is desirous of interesting capital in establishing cotton mill South, local capital participating fifty per cent. Would be interested moving Eastern mill South. Ideal labor and manufacturing conditions. Correspondence solicited. Confidential. Address

A-433

Care of Manufacturers Record

Baltimore, Maryland

Most Comprehensive Information Available

C. H. Wetterau, Vice-President, American National Bank, Nashville, Tennessee, writes in reference to the 1927 BLUE BOOK OF SOUTHERN PROGRESS:

"The writer believes it to be the most comprehensive information of its kind available. The progress of the South as shown by your book is a revelation even to we of this section who are interested and somewhat informed."

Notice of Proposal to Sell Valuable Municipal Electric Light Plant.

The City Council of the City of Kinston, North Carolina, will receive offers for its valuable municipal electric light plant, together with franchise to do business in the City of Kinston, at a meeting to be held in the City of Kinston at City Hall at 7.30 P. M. on Monday, December 12, 1927.

Prospective purchasers are invited to submit seal bids for plant, franchises, rates for power and lighting to consumers, including street lighting for the City of Kinston.

The City of Kinston will require from each bidder a certified check, drawn to order of City of Kinston, upon some Bank or Trust Company in the amount of \$100,000 as evidence of good faith.

The City Council of the City of Kinston reserves the right to reject any and all bids made.

For further particulars, address the undersigned.

W. A. MITCHELL, Mayor.
W. B. COLEMAN, City Clerk.

Factory Rebuilt Cranes & Shovels

For Sale

with
Factory New Crane Guarantee

For Rent

20-TON, 8-WH., S. G. CRANES
Brownhoist, No. 4, 50 ft. boom, new boiler, double friction drums.

Brownhoist, No. 4, 50 ft. boom, oil burner, dble. drums separately driven, located at San Francisco.

Variety, 40 ft. boom, dble. friction drums. Shop overhauled.

McMyler, Type B, 55 ft. boom, new boiler, dble. friction drums.

Browning, 50 ft. boom, dble. friction drums, located at Bay City, Michigan.

Industrial, 47 ft. boom, dble. power drums, located at Bay City, Michigan.

25-TON, 8-WH., S. G. CRANES
Brownhoist, No. 5, 40 ft. boom, 10 or 20 ft. center section supplied if wanted. Quick disengaging mechanism for travel gears, dble. power drums. Practically new, less than 12 months light service.

18-TON, 8-WH., S. G. CRANES
Brownhoist, 50 ft. boom, with special booming mechanism, oil burner. Located at Los Angeles, Calif. Crane No. 5606.

10-TON, 8-WH., S. G. CRANE
Brownhoist, No. 2, gas. driven, 40 ft. bm. Slightly used. Crane No. 10026.

30-TON, 8-WH., S. G. CRANES
Industrial, 50 ft. bm., Crane No. 4651.

Equipment offered by this company is only slightly used or fully rebuilt in the shops of a crane or shovel manufacturer. We are therefore, able to offer you machinery in practically new condition and to give a standard factory guarantee. New shop numbers are applied to rebuilt cranes. All steam machines offered have boilers that meet all legal requirements. New Boilers are indicated.

WRECKING CRANES

Industrial, 50-ton capacity, with outriggers. New boiler. Crane No. 624.

CRAWLER CRANES & SHOVELS

Brownhoist, No. 2, 10-ton capacity, gasoline driven, 40 ft. boom, dble. power drums. New engine.

Industrial, 12 1/2-ton, gasoline driven, Type DC, combination crane, shovel and dragline, 45 ft. lattice dragline or crane boom, 25 ft. shovel boom, 15 1/2 ft. stick, 3/4 yd. dipper. Bay City, Michigan. Crane No. 4785.

Industrial, 15-ton, gasoline driven, Type DC, combination crane and shovel, 40 ft. crane boom, 25 ft. shovel bm., 15 1/2 ft. stick, 1 3/4 yd. dpr. or 27 ft. bm., 18 1/2 ft. stick, 3/4 yd. dpr. Bay City, Mich. Crane No. 4835.

Industrial, 15-ton, gas. driven, Type DC-G comb. crane, dragline and shovel, 45 ft. crane-dragline bm., 25 ft. shovel bm., 14 1/2 ft. stick, 3/4 yd. dpr. Birmingham, Ala. Crane No. 4783.

Industrial, Type DC-G Shvl., gas driven, 27 ft. bm., 15 1/2 ft. stk., 1 yd. Mesabi dpr. Practically new. Crane No. 4895.

MISCELLANEOUS CRANES

Brownhoist, 4-wheel, std. gauge, No. 5, 25-ton capacity, 50 ft. boom, dble. power drums, outriggers. New.

THE EQUIPMENT SALES AND RENTALS CO.

Sales Offices: OLIVER BLDG., PITTSBURGH, PA. CLEVELAND: 4403 ST. CLAIR AVE.

FOR SALE

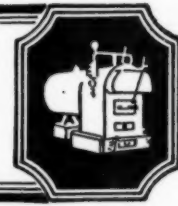
Plant C, Formerly of the American Manganese Steel Company
17 acres of land, adjoining Penn Seaboard Steel Co., 500 feet fronting along Delaware river. Main building 62x624 feet. Four steel converters, three cupolas, three electric cranes. Complete power plant. Terms to suit purchaser who will operate any line of business.

Apply to S. S. Deemer, Owner New Castle, Del.
Bell Phone 5

ARE YOU OPEN FOR CONVICTION?

"Everybody who claims to be open for conviction should read the Blue Book of Southern Progress."

J. C. Henderson, President, American Southern Orchard Planting Company, Horatio, Arkansas.

**RESALE DEPARTMENT****MACHINERY****EQUIPMENT****SUPPLIES**

An Inventory representing several million dollars of going units is released for quick sale on a bargain basis, because of replacement of local plants by transmission service.

Excellence of physical condition and operating records have been inspected and verified. Many units, in service only one or two years, check practically as new.

To secure early choice of efficient high value units, reliably recommended, at low cost, mail or wire specifications of your requirements.

**[[ENGINE AND TURBO UNITS
HIGH PRESSURE BOILERS
POWER PLANT APPARATUS]]**

**PAUL STEWART and COMPANY**

First National Bank Building

Cincinnati, Ohio Telephone 4-1652

Cable Address - Pasco, Cincinnati

Cable Message - Pasco, Cincinnati

POWER PLANT**EQUIPMENT****ELECTRICAL MACHINERY**

Motors and Generators, A. C. and D. C. for sale at attractive prices. Large stock of New and Rebuilt Motors on hand at all times. Write for our stock list and prices.

V. M. NUSSBAUM COMPANY

Fort Wayne

Indiana

**GENERATING UNIT
For Sale**

1—Westinghouse D. C. Generator, 45 K.W., 125-250 V., 180-A with switchboard and 1 60-HP Ball Engine. Apply to

THE LANE COMPANY
Altavista, Virginia**RANDLE****OFFERS BIG BARGAINS IN**

Used and Rebuilt Engine Generator Sets, Turbo Generator Sets, Motors, Rotary Converters, Generators, Motor Generator Sets, Engines, Boilers, Steam and Electric Machinery of all kinds, also Machine Tools. Send for our new machinery list. Yours for the asking.

**The RANDLE
MACHINERY CO.**

1734 Powers St., Cincinnati, O.

FOR SALE

1—70 ton, three truck Shay, equipped with air and in almost perfect condition.

ROBERT A. BOOTHE

3816 Avenue "A" South

BIRMINGHAM

ALABAMA

INSPIRATIONAL

Walter A. Richards, City Manager, City of Daytona Beach, Florida writes in reference to the 1927 Blue Book of Southern Progress: "It is inspirational in that it clearly pictures the future development which must come, and at the same time it is not visionary, because every fact is supported by figures."

**UNIVERSAL MILLING
MACHINE**

1—No. 4 Cincinnati Double Back Geared, power feeds with index heads, swivel vise and double friction countershaft.

DELTA EQUIPMENT CO.

148 N. 3d St. Philadelphia, Pa.

**New 12,000 Gallon
CYPRESS TANK**

Complete ready to set up. Will sell at 25% less than factory price, F. O. B. Knoxville.

DEAVER DRY GOODS COMPANY
Knoxville, Tenn.**FOR SALE
AT BARGAIN**

14—Alvey Ferguson Bridge type platform conveyors, one hundred foot centers with twenty-eight inch maple flights; also a Baldwin Standard Gauge gasoline locomotive with ten platform trucks; also a one hundred and fifty foot steel trawler hull just right to be equipped with Diesel engine for small passenger boat, freighter or fishing.

ROOM 3734

Grand Central Terminal New York City

**USED MACHINERY
For Sale**

- 2—No. 6 Williams Universal Hammer Mills.
- 1—No. 4 Williams Pony Coal Crusher.
- 2—6' Hardinge Mills.
- 1—5'x60' Kiln.
- 1—6'x70' Kiln, new.
- 2—8'x125' Kiln, New, and 1, used.
- 1—3'x30' Dryer.
- 3—4'x30' Dryers.

Also large stock of all kinds of crushing, grinding, pulverizing and drying machinery. Write for booklet.

HEINEKEN ENGINEERING CORP.
95 Liberty St. New York, N. Y.
Tel. Hanover 2450

**Machine Tools
Power Equipment Boilers
Electric Motors**

DELTA EQUIPMENT CO.
148 N. 3rd St. PHILADELPHIA

Every Factory Should Have One



A goat? Certainly! Something to blame when things go wrong—

—especially when poor lighting is spreading its disturbing influence through the factory.

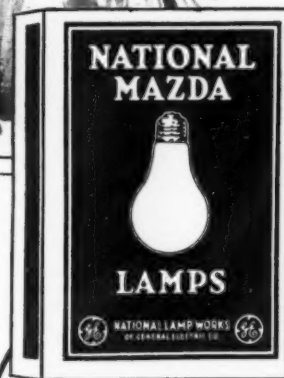
Poor lighting has slyly been goat-making for years. Getting blame laid on men, machines, production methods—on anything at all. And innocently standing by.

Wrong lighting is always causing expense and trouble that somebody has to answer for. It makes seeing more difficult, and is therefore a barrier to speed and accuracy. It makes eyes—and nerves—tire more quickly, and thus contributes to errors and accidents. Yet such lighting is easy to get rid of—and good lighting is *easy to have*.

Ask your electrical contractor or your electric lighting company to tell you just how to put your factory lighting on a productive basis. Or write us direct.

NATIONAL LAMP WORKS of General Electric Co., NELA PARK, CLEVELAND

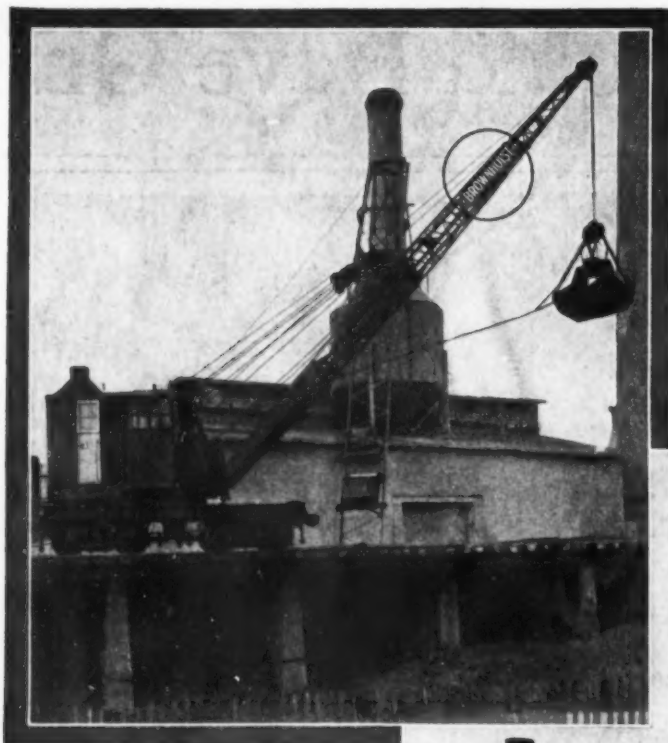
Only lamps which bear the MAZDA mark are made with the benefits of MAZDA Service—the special service of the Research Laboratories of General Electric Company.



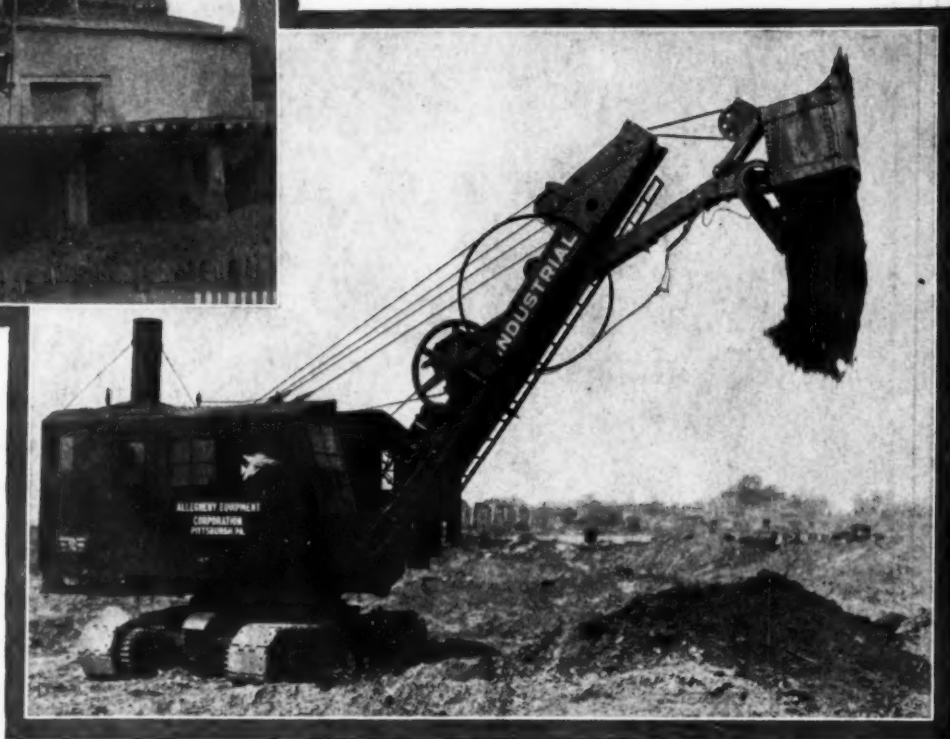
National MAZDA LAMPS



Dependable Trade-Marks for 50 Years



Above—Twenty-ton capacity steam locomotive crane.



At Right—Fifteen-ton capacity steam shovel crane. Also furnished with gas engine or electric power.

No company can offer you the wide choice of cranes for your work and none has had the long and valuable experience of Industrial Brownhoist in the economical handling of materials with crane equipment.

Industrial Brownhoist builds many different types of locomotive and wrecking cranes that range in capacity from $7\frac{1}{2}$ to 200 tons. We also build crawler cranes and shovels, all of which types have proved their dependability in the hands of a great number of owners.

Economical handling is no problem if you have dependable equipment to do the work. Our sales engineer, who is located near you, would like to talk over your material handling methods with you. May he call?

Industrial Brownhoist Corporation

General Offices: Cleveland, Ohio.

District Offices: New York, Philadelphia, Pittsburgh, Detroit, Chicago, San Francisco, St. Louis, New Orleans, Bay City, Mich.

INDUSTRIAL BROWNHOIST

